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Argentina Duperial's finance director David Martin:				family	Aug	29	24	Nobel Prize (1979) in chemistry to	14401	,		
Duperial's Martin is on guard against inflation	May	23	48	nuclear power plants are closed N A tale of three towers and a burn rap—	Oct	24	31	synthesis pioneers Herbert C. Brown and George Wittig	Oct	24	19	
Heavy-water plant construction gets				Viewpoint	June		5	Azadirachtin-Indian tree extract repels a			50	
Import tariffs on some petrochemical	Feb	21	37	-Letters, Aug 1-5	Oct	10	5	wide range of insect pests from crops .	Aug	29	50	
products reduced N	July	18	38	power plants	May	9	19	D				
South America: set for growth? (tables).	May	23	25	Thermal pollution see Environment; Water Pollution				В				
Argon				Three Mile Island, Pa. nuclear accident:				Baby Formulas-Syntex faces lawsuits				
Air Products and Chemicals industrial gas plant in Milwaukee R	Nov	28	28	more doubts about nuclear power -Letter June 13-5	Apr Aug		22 5	over recalled formulas	Aug	22	30	
Union Carbide to build major industrial				Tin-nitride process to recycle nuclear			40	Bacteria				
gases plant at Brownsville, Tex N	Nov	21	13	fuel: Battelle study due N Uranium see Uranium	Nov	21	46	Bacteria speed up fermentation to make ethanol for motor fuel N	July	25	46	
Aromatics				Australia				Cooling-tower additive, Ty-Ion A-35,				
AIChE meeting: Soaring aromatics costs sour search for alternatives	Apr	11	42	Alcan Aluminum proposes aluminum	Aug	16	29	kills the bacteria that cause Legion- naires' disease N	July	25	45	
Bayer's Haarmann & Reimer after more				plant	Aug	15		Fermentation for ethanol	Aug		42	
of U.S. market	June	20	42	shortages in 1980s N Aluminum industry beefs up production	June	6	30	Life forms: Federal court rules again that lab-created life forms can be				
petrochemicals base (table)	Dec	19	27	for export push	May	9	42	patented N	Apr	11	18	
Chemicals and gasoline compete for aromatics	Apr	18	31	Aluminum plans N Apr 18-26 R BMI Ltd. to test market fly ash as	May	2	23	Searle makes flu virus antigens in bacteria	May	30	20	
Haarman & Reimer symposium points				concrete additive	Nov	14	51	Baeder, Donald Lee, executive v-p of Occidental, president of Hooker Chemi-				
to new methods to make flavors and fragrances	Oct	3	46	Carbon dioxide kills bugs in grain storage bins N	June	13	23	cal: Occidental made him an offer he				
India's CPI is stalled by political crisis (tables)	Sept	19	36	CPI buildup fosters fears of overcapa-				couldn't refuse	June	27	56	
Iran's turmoil shakes world chemical				Coal-cleaning process developed N	Feb		52 42	ing process to make newsprint from				
markets (table)	Feb	21	19	Comalco's Queensland aluminum smel-				bagasse is available N Bags—Price-fixing among makers of plastic	Aug	1	27	
the outlook N	Sept		35	ter capacity to be doubled N Conzinc Rio Tinto makes takeover offer	Sept	5	69	refuse bags probed: Chelsea Industries				
Price spiral spawns derivative rises N Prices N Jan 10-24, N Feb 14-29 N	May	30 21	24 32	for BH South Ltd N	Oct	3	31	subpoensed	Feb	14	18	
Production N Aug 29-33 N	Oct	3	37	Gas condensate will be greater than ex- pected from Australian field N	May	9	40	operating officer of Air Products and				
Spot market is stabilizing N Arsenic—NIOSH to issue arsenic warning .	July	18 18	34 24	ICI Australia expanding Botany petro-				Chemicals: The top job in Europe led to the top at home	Apr	11	70	
Art Restoration-Stained glass: conserva-				chemical complex at Sydney, plans chlor-alkali facility at Point Wilson : N	Feb	14	43	Barbecue Industry Assn.—Cookout market				
tionists and restorers are turning to a host of chemical specialties	Dec	19	82	Oil industry wants to use filters to cut			38	helps boost sales of charcoal, startup products	July	4	33	
				lead emissions		15	30	Barges				
Amoco tests New Castle, Del. employees				ICI plants come onstream N	July	18	38	Chemical shippers have big stake in re-				
for asbestos diseases	Apr	11	25	Researchers get a fix on ceramic for bone repairs	Sept	26	69	construction of Alton, III., lock: deteriorating waterways may slow				
California union backs fund for asbestos victims N	Apr	4	37	Roche Australia, Roche Analytical Services, analytical laboratory R	Nov	21	22	growth of chemical barge traffic	Nov	14	86	
EPA wants sweeping controls on asbestos Johns-Manville hit with more asbestos	Oct	24	18	Salt producers prospects brighten N		12	42	Diesel-fuel availability eases but wary shippers eye costs	July	18	52	
lawsuits	May	23	18	Slurry pipeline system for coal will be developed	Sent	t 26	32	Diesel-fuel shortage hits chemical car-			-	
Johns-Manville to stand trial for suppres- sing asbestos-hazard evidence	May	16	25	Uranium sales to continue N	Apr	11	54	riers	July	4	28	
NIOSH tests show small amounts of				Australian National University—Ceramic called synrock		9	31	chemical traffic N	Apr	25	27	
asbestos in most home hairdryers N Producers may have to help fund search	Aug	22	14	Australian Orthopaedic AssnAnnual				Barite				
for asbestos in schools N	Mar	21	18	conference: researchers get a fix on ceramic for bone repairs	Sept	t 26	69	Oil and gas fuel barite boom (chart & table)	Feb	28	26	
Virginia gets tough on benzene and asbestos	June	6	22	Automobiles	-			Yugoslavian development N	Mar		37	
				Air pollution see Air Pollution				Barnes, Earle B., replaces Merszei as Dow chairman		14	33	
Asia Animal-feed industry R	Nov	21	22	Air Products-Degussa joint venture lands GM catalyst order	Sen	t 5	18	There wasn't room at the top for two	Feb			
Japan will back new plants to be built in Southeast Asia N	Anr	18	26	Australian oil industry wants to use			-	Barnett, Robert P. new president of ICC Americas	Nov	21	18	
PVC producers plan VCM-buying co-				filters to cut lead emission N Beech offers fuel system for operating		15	38	Batteries				
operative N Asia see also individual countries	Feb	28	51	autos on liquefied natural gas N	Nov			Chemical Week 300 - report. Homer G.				
Assn. of the British Pharmaceutical				Brazil's CPI shifts from oil to alcohol Brazil steps up use of ethanol in auto-		28	49	Starr (tables) Feb 28-41, Apr 25-41 Conglomerates are sold on the bright		30	49	
Industry-Lumley discusses drug price controls	May	16	34	mobiles N	Sep	t 26	53	outlook for battery makers (chart &				
Assn. of Executive Recruiting Consult-				Car-wash chemicals: sales outlook; pres- sure is on to recycle	May	, 9	36	table)		10	14	
ants-'Street-smart' execs in demand Assn. of Thin Layer Chromatography-	Dec	5	87	Catalysts: GM gears up for shift to richer catalyst		16	44	tery: light, long-lasting	Oct	3	19	
Conference: TLC is being adapted to				Catalysts report. Donald P. Burke	rmay	, 10	44	test in storing electricity for utilities .N	Nov	28	34	
detect mutagens and carcinogens	Feb	14	41	(charts & tables) Part 1: A \$600-million market in cars				Lead-acid batteries featured in GE's ETV-1 electric vehicle N	July	. 4	39	
Atomic Power				and refineries	Mai	28	42	Thermal energy "storage bettery" sy-			30	
California: Judge overturns law stifling nuclear power		21	24	Catalytic converters: Grace's Davison Chemical Div. starts making low-den-				stems will cut home heating costs in		16	48	
The China Syndrome' may cloak a 'fear				sity alumina spheres for automotive	1			half	Feb			
of living'-Viewpoint	Auc	11	5	catalytic converters in a new plant in Curtis Bay, Md N	Mar	v 9	29	Bauxite—Brazil beefs up bauxite, alumi- num development N				
Consumer Power delays completion of				CPI will fuel Detroit's efficiency drive				Beer-Ingredient labeling proposed N	Feb			
Midland, Mich. nuclear plant R Dow Chemical's Midland, Mich. nuclear		1 4	22	(table)	Sep	t 19	20	Belgium				
plant studied for changes	May	, 2	18	have widespread effects on CPI (table).	Dec	19	23	Capital spending (table)		21	30	
Fusion center will be set up at Oak Ridge N	Feb	7	36	Delphi survey: Arthur Anderson Co. Aug 15-19	Sen	nt 19	21	Foreign forecast: On balance, 1979 could be a pretty good year — report (charts				
Fusion: Oak Ridge awards contracts for				Detroit's production cuts will have				table)	. Jan	24	23	
bumpy torus fusion devices called the ELMO Bumpy Torus (EBT) N	Aug	29	43	mixed impact on many chemical suppliers		9 22	18	Bentele, Raymond F., Mallinckrodt's new president, picked from within	P	9	20	
Fusion power: MIT physicist Coppi				Electric vehicles: G.E. delivers ETV-1 ex-				His eye is on target when hunting	1		20	
touts compact reactor for quick jump on nuclear fusion N	Jan	17	28	perimental electric vehicle to DOE. N Ford Motor Co. 1980 cars will offer		y 4	39	game or profits	. Feb	7	48	
Fusion power: U.S. and Japan launch \$60-million joint atomic-fusion project				metric radial tires; "light-off" secon- dary catalytic converter system; cast				Benzene Chemicals and gesoline compete for				
to upgrade the Doublet III tokamak N	Sep	t 12	48	magnesium parts		ne 6	20	aromatics	. Apr	18	31	
						-						

Data Resources' price forecast	Aug		16	Devalues currency, changes trade rules N		19	26	Biomedical research expansion planned			
-Correction	Aug	22	32	Du Pont plans big investment N Ethanol use in automobiles stepped up .N	Feb Sept	7	13 53	by Monsanto: cooperative research proj-	Oct 3	1	17
OSHA's workplace standards: Justice Dept. petitions court	Jan	3	19	Foreign forecast: On balance, 1979	aabr	20	53	ect with Canadian partners planned CIL chlor-alkali aimed at U.S. market	Oct 1		41
Supreme Court will review ruling				could be a pretty good year-report				CIL closes ethylene unit at Edmonton,			
against benzene standard N Justice argues for benzene rule	Feb May		14 22	(charts & table)	Jan	24	23	Alta.; contracts to buy product N Canadian Manufacturers of Chemical	Sept 1	9	39
High Court to hear benzene case	Oct	3	18	nology in exchange for ore	Nov	21	33	Specialties' 22nd annual meeting: Fair			
High Court hears benzene arguments Petrochemical production increases but	Oct	17	53	Methanol from eucalyptus trees manu- facturing scheme	Mar	14	38	weather ahead for Canadian specialties Chemical industry is growing steadily,	Oct 3	11 :	34
some major product categories have				Methanol program proposed N		28	51	despite sluggish economy (chart &			
been 'on allocation' (chart) Prices N Jan 3-40, N Jan 10-24, N Feb	Oct	31	15	Mining ventures may be sold to private	Esh	14	44	tables)	Apr 1	1	49
7-30, N Feb 14-29, N Mar 7-32, N				interests	Feb		36	Chlorine danger forces evacuation after derailment at Mississauga, Ont	Nov 2	21	20
Mar 21-32, N Apr 11-29, N	Sept		35	Petrobras proposes alcohol-based ethy-			40	Dow Canada warns Canada may not be			
Production N Aug 29-33 N Proposed EPA rules	Oct	5	42	Potash: France backs a potash mining	Nov	28	42	willing to export unlimited oil and gas unless U.S. opens the petrochemical			
Virginia gets tough on benzene and				project N	Oct		69	market to Canada	Oct 1	0	18
asbestos	June	6	22	South America: set for growth? (tables). Bromine—Israel sells bromine compounds	May	23	25	Du Pont Canada's investment program is			00
ceed U.S. output (table)	Aug	1	16	to China N	Oct	31	30	paying off N Eldroado Nuclear's uranium refinery in	Nov 2		28
Benzoic Acid-Prices N	Aug	8	23	Bromine Chloride-Dow plans plant R		24	24	Ontario: contract to Lummus Canada R	Aug 2	2	30
Beta-Nitrostyrene—NCI tests do not pro- duce cancer in laboratory animals N	Sept	26	14	Bulgaria—Occidental Petroleum Hammer confirms company has signed a 10-year				Election win viewed with uncertainty N	May 3	10	27
	oopt			agreement with Bulgaria R	Nov	14	42	Emergency response system set for shippersN	Feb	7	29
Beverages Hawaiian court rules that a state law				Burns, John D., senior vice-president of Conoco Chemical: Conoco's Burns uses				Endako molybdenum mine closed by		-	30
prohibiting the sale of beverages in				the team approach	Dec	12	72	Ethylene: Capacity expansions set N	Mar Sept		69
plastic containers is illegal and un-			00	Burns, Michael J., president and general				Foreign forecast: On balance, 1979			
constitutional R Labeling: Ingredient labeling proposed	Sept	ь	23	manager of Dutch Boy, Inc.'s coatings group: They were sure he would hang				could be a pretty good year-report (charts & table)	Jan 2	24	23
for beer, wine and liquors N	Feb	14	23	out his shingle	July	4	60	Gulf Oil Canada's Montreal refinery	Juli 2		20
NSF reports finding suspected car- cinogen in scotch whiskey N	Aug	16	14	Butadiene				damaged by fire	Feb 2	21	26
Bicycle wheel of plastic developed by	Aug	10		Borg-Warner Chemicals methyl meth-				Heavy-oil recovery: enhancing the out- look	June 1	13	24
Montedison N	Feb	21	37	acrylate butadiene styrene resins plant	li man	10	40	Methanol: Celanese Canada studies			
Bioassay Testing see Testing Biocides—Prices	Sept	5	65	onstream at Grangemouth, Scotland .N OECD sees slow growth through 1985	June	24	14	methanol plant at Edmonton opera- tion	Oct 1	10	28
Biomass				Prices N Production figures for July 1979 N	Jan	17	35	Mobil plans oriented polypropylene			
Biomass to ethanol without fermenta-				Stantrans acquires butadiene storage	Oct	3	37	(OPP) film plant at Belleville, Ont. to			
tion: experimental technology for				facility from Anchortank, Inc R	Mar		25	supply the Canadian packaging film market	Aug 1	15	13
turning corn husks, rice hulls and pine trees into ethanol	Nov	20	38	Supplies are snug N	May	16	30	National election could affect natural			44
Fermentation technology and process	MOA	20	30					Oil-recovery R&D pacts are signed N	Apr June		44
engineering must be significantly im-				Butane DOE plans decontrol N	Apr	18	14	Patent law sparks drug controversy:	-		
proved if ethanol made from biomass is to be used extensively as a motor				Fill-in for crude: light hydrocarbons				Novopharm applies for license for ulcer-drug similar to SmithKline's			
fuel says consultant Prebluda	Apr	18	32	(charts)	Nov	14	20	Tagamet	Oct	10	51
Non-fermentation route to ethanol from biomass is proposed N	Oct	21	40	tions may force processors to change				Petro-Canada plans LNG plant in the			21
Synthetic oil: tapping the gopherweed	Dec		53	cast-urethane specialties	June	13	48	Polypropylene dumping cited N	May	9	60
				26-27 N	Dec	12	32	PVC: Diamond Shamrock confirms			
Bisphenol A Bisphenol A will grow with polycarbo-				Butene-1-Exxon licenses Huels techno-				joint-venture plant in Alberta will be onstream late this year N	Oct	10	13
nates (table)	Dec	5	50	logy, may make MTBE and butene-1. N Butyl Nitrite-Massachusetts state court	Aug	29	43	Potash firms may take Saskatchewan	Oct	10	
USS Chemicals plans plant at Haverhill,	Nov	21	13	upholds ban	Oct	10	22	tax deal	Oct	17	26
O	1404	41	13	Butynediol-GAF plans acetylene chemi- cals complex at Seadrift, Tex N	Feb	28	13	Potash market: Saskatchewan settle- ment may help ease a squeeze on			
man and chief executive officer: She's				Buyers' Guide	Oct	31	Pt2	potash in mid-1980s; capacity, pro-			
continuing in her late husband's tradi- tion	Apr	25	64					duction, consumption (charts & table). Quebec moves nearer to acquiring	Aug	22	33
Boats—National Boat Show: high-strength								Asbestos Corp N	June	27	36
fibers find niche in boats	Jan	24	15	•				Asbestos Corp. files suit to prevent takeover by province of Quebec. N	July	4	47
Boilers								Quebec's Petromont plans to compete			
American Hoechst awaits DOE decision on boilers for Texas HDPE plant N	Dec	12	18	C ₆₆ (hexachlorocyclopentadiene)—Hooker				in world ethylene-products market . N		14	76 44
Boiler-fuel additives: emission rules, high	500		10	dumpsite see Waste Disposal				Refiners face strike threat N Sulfur: inventories down, prices up	Aug	8	18
fuel oil prices putting new life into boiler-fuel additives	0	21	22	Cadmium				Sulfur shipments face lengthy delay . N	Mar	21	32
DOE wants to sell big steam users on	UCE	31	33	Nonferrous metal chemical prices weak- en N			0.0	Texasgulf to sell sulfur recovery unit at Whitecourt, Alberta R	Jan	17	22
			ac		Aug		35 69	UC plans Canadian PE expansion N		29	17
fluidized combustion N	May	23	35	Sweden bans cadmium imports N						20	
fluidized combustion N Fluidized-bed boilers with guarantees				Sweden bans cadmium imports N Sweden suggests ban on use N	Sept	10	40	Canadian Chemial Producers Assn.—		20	-
fluidized combustion N Fluidized-bed boilers with guarantees to be offered by two firms N Fluidized-bed combustion of coal: ready		23	37	Sweden bans cadmium imports N Sweden suggests ban on use N WHO studies exposure levels for heavy	Sept	10	40	Annual meeting: Trade experts have			25
fluidized combustion N Fluidized-bed boilers with guarantees to be offered by two firms N Fluidized-bed combustion of coal: ready for generating process steam (flow-	Feb	21	37	Sweden bans cadmium imports N Sweden suggests ban on use N WHO studies exposure levels for heavy metals N Calarco, Vincent A., president of Uniroyal	Sept	10		Annual meeting: Trade experts have mixed visions of 1980s	June		25
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Union Carbide's South Charleston, W.				Carbon Monoxide EPA grants waivers for auto CO emis				Nuclear-waste disposal materials: cera-	A4	9	20	
Va., chemical plant: NIOSH investi- gates cancer rates	Aug :	29	24	sions	Sept	5	21	mics gain on glass	May	я	30	
UC's Texas City, Tex. plant's brain- tumor deaths studied by OSHA,				Thermochemical cycle uses solar col- lectors to produce hydrogen, CO N	Aug	15	38	sales of charcoal, startup products Chem Show 1979—Chem Show: CPI's	July	4	33	
NIOSH	Feb	28	22	Carlson, Donald W., president of Henke Corp.: Short-wave enthusiast tunes in				Supermarket	Nov Dec		66 45	
among chemical workers at UC and			40	on big markets	Sept	19	60	Chemical Communications Assn.—The re-				
Monsanto Texas plants	Mar	14	19	Carpet and Rug Institute—Carpet-fibers market (chart)	Nov	21	25	recession is here, economist tells CCA Chemical Industry for Minorities in Engi-	June	20	24	
over husbands' deaths from brain tumors	Apr	25	25	Carpets—Carpet feshener sales are cleaning up		28	46	neering (ChIME)—Search for minority ChEs is heating up	June	27	47	
Five more tumor cases found at	Aug		22	Castings—Moca in doubt; regulations may force processors to change cast-urethand				Chemical Industry Institute of Toxicology —CIIT moves into new labs in Research				
VCM: CPSC study supports single-				specialties	June	13	48	Triangle Park, N.C.: Golberg's goal is to				
dose thesis on cancer risk	May	2	21	Catalysis—Katzer at Midland meeting looks at the state of catalysis	Oct	31	29	make CIIT a center of excellence in toxicology	July	25	53	
\$800,000 in verdict against Schering- Plough	Sept	6	19	-Correction	Nov	7	24	Chemical Manufacturer Assn.				
CPSC withdraws its controversial policy				Catalysts				Benzene case Jan 3-19, N Feb 28-14,	_	_		
on carcinogens N Cosmetic studies see Cosmetics	May	2	14	Air Products-Degussa joint venture land GM catalyst order	Sept	5	18	May 30-22, Oct 3-18	Oct	17	53	
DES: Jury awards damages in Eli Lilly DES case	July	25	21	American Cyanamid boosts capacity for hydrodesulfurization catalysts in				the solutionViewpoint	Sept	26	5	
DES cancer risk may be lower than thought	Mar		25	England	Sept	26	32	companies gather data	May	9	32	
Dibromochloropropane studies see Di-	Mar	21	25	cracker at Philadelphia refinery ?	May	30	13	Roland outlines plan for attacking prob-				
bromochloropropane EPA distributes draft of its carcinogen				Boiler-fuel additives: emission rules, high fuel oil prices putting new life into)			'Orphaned' (abandoned) sites: CMA	July	18	22	
policy N	Aug	8	31	boiler-fuel additives	. Oct	31	33	offers EPA a hand	Sept Sept		22 14	
EPA proposes policy for airborne carcinogens N	Oct	17	18	ACS meeting	. Apr	11	45	Costle welcomes help on wastes; will				
Fetal safety controversy: cases at Ameri- can Cyanamid and Allied Chemical	Jan	10	18	Catalysts report. Donald P. Burk (charts & tables)				make CMA study public	Sept	26	19	
NIEHS studies effects of four chemicals on the fetus	Jan		21	Part 1: A \$600-million market in car and refineries	. Mar	28	42	MCA-SOCMA delegation met European	Oct	10	14	
OSHA seeks \$24,000 in fines from				and refineries . Part II: Chemicals make it a \$1 billio a year market	. Apr	4	46	chemical trade associations to discuss toxic-substances regulations	Mar	7	20	
Cyanamid	May	16	25 23	Cobalt-polymer catalyst provides low				New name for Manufacturing Chemists			39	
Hair dyes see Hair Dyes HEW compiling list of workers exposed				cost route to steroids, hydrocarbons .l Ford turning to a light-off catalys		13	23	Assn N 107th Annual Meeting: CMA plans an	May	23	14	
to dioxin N	Aug	15	14	system	. June	6	20	activist role in a future that hints of	June	12	19	
Insecticides, pesticides see Insecticides Interagency Regulatory Liaison Group				making low-density alumina sphere	8			Roland, Robert A., president: He changed			-	
see Testing—Toxic chemicals Interagency Testing Committee see				for automotive catalytic converters i a new plant in Curtis Bay, Md		9	29	"Superfund" bill see Waste Disposal	Oct	3	56	
Testing—Toxic chemicals Is there a workplace cancer epidemic?				Huels will switch to low-pressure, rho dium-catalyzed oxo process	-	18	30	Survey on how the Clean Air Act has affected business	July	18	4R	
OSHA seminar hears both sides	Sept		44	Low-cost catalysts called "face-to-face	**	10	30	TSCA changes would be premature N		14	14	
-Correction	Oct	7	8	porphyrins for fuel cells could wide their uses	N Sep	5	76	Transportation safety task force dis- banding, with many goals reached	Feb	28	57	
Israeli firm Abic Ltd. says glucose-based product can successfully treat most				Mobil shows how ZSM-5 family of	vf .			29th semiannual meeting: CMA plans stronger public relations	Nov	28	22	
forms of skin cancer N	Sept	26	32	zeolite catalysts make gasoline from big molecules	V Oct	10	42	Chemical Marketing Research Assn.		-	-	
Maybe things aren't so bad after all— Viewpoint	Dec	19	4	Montedison Plastics Division secon plant for high-yield catalyst for	IT.			Conference—"Challenges facing chemi-				
NCI's bioassay testing program GAO criticizes NCI on cancer testing	May	2	23	polypropylene	R Dec	5	43	cal specialties in the 80's"	Dec	12	39	
NCI finds four drugs to be Carcino-			14	alyst-renewal cost	. Feb		53	kets	May	23	44	
' gens N NCI says link between glass fiber and	May			Polymerization catalysts prices Radial-flow converter to make sulfur	ic		28	searchers	Feb	21	40	
lung disease is erroneous N Negative bioassy tests for pesticide	June	13	14	acid saves energy		25	58	USS Chemicals' Hamilton gives ethylene forecast	May	16	32	
coumaphos and hair-dye ingredient	lee.	24	20	metals in refinery cat cracking	N Jan	10	34					
4-nitro-o-phenylenediamine N Reserpine: JAMA's Barclay blasts HEW	Jan		38	Studies focus on catalysts, catalyst processes and supports	N Feb	7	35	Chemical Specialties Manufacturers Assn. Benzene case Jen 3-19, N Feb 28-14,				
reserpine study	Aug	29	22	UOP signs pact with BMW on c catalysts		e 6	13	May 30-22, Oct 3-18	Oct	17	53	
cause cancer in lab animals N Toxaphene is carcinogenic N	Sept Mar		14 37	Caustic Soda				turers to perform carcinogenicity testing questioned R	Jan	17	22	
National Institute of Environmental	iveai		0,	Outlook brightens: Producers boo				Midyear meeting covers wide field	May		33	
Health and Safety animal experiments on dioxin look for birth defects N	Aug	15	14	prices as demand increases and operating rates rise (charts & table)	. Mai	14	29	66th annual meeting theme "The American Initiative"	Dec	12	39	
NIOSH, OSHA studies see Labor New Jersey cancer bill stalled, air rules				Prices N June 13-36, N June 20-3 N Sept 5-65, Sept 12-20	N No	28	40	Chemical Warfare				
pass	Oct	24	20	Caustic Soda see also Chlor-Alkali		. 20	***	Army acts to destroy nerve gas Pentagon seeking approval of an Army	Oct	31	20	
'There is no epidemic' N	Sept	5	5	Cederberg, Haakan, vice-president Bofors Lakeway Inc.: This Swee	le			plan to build a new nerve-gas plant at				
Public policy must rest on sound science	Sept	12	5	doesn't fit the mold	. Sep	t 12	60	Pine Bluff, Ark R	Nov	21	21	
Platinum-based drug, cisplatin, for anti- cancer drug therapy N Jan 3-34	Jan	31	42	CEFIC (European Council of Chemic Manufacturers Federations)	al			Chemical Week Reports Catalysts. Donald P. Burke (charts				
Regulatory Council will soon release	-			Ethylene: CEFIC thinks Europe will I	96			& tables) Part 1: A \$600-million market in cars				
'framework' for regulating carcino- gens N		26	14	squeezed by new ethylene plants Further energy savings will be difficu	it.	19	22	and refineries	Mar	28	42	
Regulatory Council issues cancer guide Saccharin see Sweeteners		3	18	for Europe's chemial firms Oil shortage and high costs pose pr	N Sep	1 12	.41	a year market	Apr	4	46	
Thin-layer chromatography is being adapted to detect mutagens and				U.S. fiber exports worry Europeens .	N .hun	e 20		Chemical Week 300. Homer G. Starr (tables)				
carcinogens	Feb	14	41		. Au	9 8	. 17	In late-1978 upswing top CPI com- panies' gains surpass the rise in GNP.	Feb	28	37	
Toxic chemicals				Cells (living) Insulin-producing living cells are enca	0-			-Correction		14	20	
Toxicology Forum: needed - better studies of links to cancer	Feb	14	39	sulated for the first time	N Apr	4	37	Fourth-quarter upturn helped top companies hit new highs in sales and				
Toxics Substances Control Act see Law Cans see Contianers				Supreme Court	. No	, 7	20	earnings, but only modest gains in profit margins		25	28	
Caris see Contrainers				Live-cell inplants: encapsulated pancre cells may help in treating diabetes	. Apr	25	53	Margins are modest, but gains look				
Caprolactam				Method shows how drugs affect ceils. Cellufose—Insulation: CPSC amends sta		17	27	great	Aug	30	45 34	
Prices	t	3	37	dards for cellulose insulation Cellulose Acetate-Butyrate—Material f	N July	y 18	18	-Letter (cover correction)	Nov	7 21	34	
eliminates ammonium sulfate copro- duction N		e 6	35	hard contact lenses	. Oct	3	38	Forecast '79: Mixed fortunes for year ahead (charts & table)	Jan	3	25	
Carbon-UC to build carbon fibers plant at Greenville, S.C.	1	24	9	Cement				Foreign forecast: On balance, 1979		3	40	
Carbon, Activated-O.H. system uses	5	24		Expansions fueled by record-high earings (chart & tables)	n-	r 14	15	could be a pretty good year (charts & table)	Jan	24	23	
water under high pressure to flush out wastes in ground, waste-laden water	r			Kaiser Cement Corp. Lucerne Vall	ly	14	10	Oil and chemicals. Era of peaceful co- existence? Meyer Lurie (tables)	Oct	17	70	
then treated with activated carbon	. Sep	t 19	44	cement facility expansion and mode	. No	v 7	25	Plant sites 1980. John M. Winton (chart,		5	71	
Carbon Dioxide Airco storage expansion at Augusta, Ga				Rubber cement helps Nyad in reco	rd	g 29	27	Puerto Rico: problems in paradise.		-		
and Torrance, Calif F	Oct	24	24	Shoe-repair specialties: jogging sho	95		-	Meyer Lurie (charts & tables)	Apr May		56	
Carbon dioxide kills bugs in grain storage bins	i Jur	ne 13	23	add new life to market	. Ma	y 16	41	Chile				
Liquid Carbonic Corp. expansion of its Augusta, Ga., by product carbon di	5			Ceramics Australians show silicon nitride wor	les			Cabo Negro joint venture N	May	9	13	
oxide plant) De	c 12	28	as bone and joint implant	Sej	ot 26	69	Copper plans brighten outlook for treatment chemicals	Dec	12	59	

Gold-silver-copper depositR	Apr	4	26	Chemical Week 300-report. Homer G.				Monsanto to boost urea-melamine capa-			
South America: set for growth? (tables).	May	23	25	Starr (tables) Feb 28-41, Apr 25-33,	Man	21	20	city at Springfield, Mass R	Mar	21	26
				May 30-49, Aug 29-36	Nov	21	36	National Paint and Coatings Assn. annual meeting: Pressure is on petro-			
China Better trade relations with China shead?	Oct	21	17	at CSMA meeting	Dec	12	39	chemicals for coatings	Nov	7	40
Chemical output grows, but government	OCI	31	17	Stained glass: conservationists and re-				Navy Research Lab process employs	les.	10	24
slows development (table)	July	25	37	storers are turning to a host of chemi- cal specialties	Dec	10	82	laser to coat surfaces N Navy seeks antifoulants for new ship	Jan	10	34
Chemical shopping spree: \$2.5 billion	Jan	17	20	Cleveland, O.: CPI firms given little say	Dec	10	02	coatings	Nov	21	22
in new projects (table)	3411	17	20	as city's problems mount	Jan	31	33	Nuclear-waste forms' coatings	May	9	31
get in	Jan	24	32	e=1				Rubber cement helps Nyad in record swim	Aug	29	27
China, too, faces energy and growth problems N	July	11	36	Coal Alaska wants investor to develop coal				Vista Associates' Levine discusses paint	Link		
China will become a big petrochemicals	July		30	fields N	Sept	19	39	and coatings industry at CMRA	~ .		
exporter N	Dec		26	Australia: Slurry pipeline system for		00	00	meeting	Feb	21	40
Chinese will train in U.S. CPI plants	Sept		70	coal will be developed N CPI feat: scrimping on fuel oil	Sept		32 20	Cobalt			
Energy delegates quietly tour the U.S Israel sells bromine compounds to	June	0	18	Coal-clean air debate gets hazier and	June	20	20	Cobalt-polymer catalyst provides low-			
China N	Oct	31	30	hazier	June	27	25	cost route to steroids, hydrocarbons. N Demand up in 1978, despite soaring	June	13	23
Menthol markets: imports from far East	Mari	44	49	Coal-cleaning process developed in	Oct	10	42	prices (table)	Jan	10	20
threaten U.S. markets	Nov Sept		53	Australia N Coastal States and Getty to jointly	Oct	10	42	Prices N	Feb	28	28
Oil and gas output boost to help pay for	oupe	20	00	develop two underground coal mines							
economic buildup N	Jan	10	39	in Utah N	Mar	21	17	Coke	0	00	10
Petrochemical buildup continues N Plant-buying spree N	July	10	47 39	Conversion: Celanese's Pampa, Tex. plant switches from natural gas, but				Allied settles Armco coke-oven lawsuit . API asks Supreme Court not to review	Sept	20	19
Plant-buying spree N PVC plant contract to Shin-Etsu R	Jan	10	21	burning coal is not yet economic	Nov	21	48	OSHA standard	Jan	31	21
Textile joint-venture participation of-				Conversion: cost increases doom coal-				Chemical Week 300-report. Homer G.			
fered to Toray N Textile trade discussions between U.S.	July	4	47	conversion project in Pekin, III N Conversion: DOE and EPA at odds over	Jan	3	34	Starr (tables) Feb 28-41, Apr 25-40, May 30-49, Aug 29-40	Nov	21	36
and China N	Jan	10	23	coal conversion and air pollution rules .	May	16	28	Coke oven emissions: U.S. Steel, OSHA		-	-
UOP expects \$100 million from design				Conversion: DOE proposes tough coal-				agree on respirators for coke-oven			
of three process units N	May		13	conversion rules for existing facilities	Feb	7	19	workersN	Mar	21	38
U.S., China initial trade accord	May	23	17	Conversion: EPA allows New England Power Co. to switch big plant from oil				Colombia			
U.S. in line for role in China's de-				to coalN	Nov		18	Chemical firms contest Colombia ship-		_	
velopment N	July	18	18	-Letter	Dec	19	12	South America: set for growth? (tables).	Feb	7	22 25
U.S. and China unfurl technology 'umbrella'	Feb	7	19	Conversion: Sasol chemistry ready to go to work in U.S. synfuels programs				Colombo, Ezio, chairman of Instituto G.	May	23	20
Western technology sought for aluminum			10	(flowsheet)	Sept	12	45	Donegani S.P.A.: He aims to cash in on			
complex N	Oct	31	30	Conversion: Sasol coal conversion meth-				Montedison's technology	May	2	72
Chlor-Alkali				ods to be sold in U.S N Conversion rules may be 'uneconomical'	Sept	5	76	Colorado State University			
Alcos and Formosa Plastics plan 50-50				Regulatory Analysis Review Group				Colorado plans use of sewage, sludge	Feb	28	23
joint venture near Houston N	July	11	13	(RARG) finds R	Mar	21	26	Grace R&D contacts	Feb	21	39
Canada's CtL's chlor-alkali aimed at	Oct	10	41	Conversion technology: Pittsburgh con-				Colorants			
U.S. market	OCL	10	41	ference zeros in on coal-gasification processes (tables & diagram)	Aug	8	32	Ampacet's Weil talks olefin prices, new			
units N	Jan	10	40	Desulfurization see Dusulfurization				products	June	20	42
Outlook brightens: Producers boost				Electricity from coal by MHD tested. N	Feb	14	35	Dry Color Mfgrs. Assn. joined by 500 companies asking EPA for exemption			
prices as demand increases and oper- ating rates rise (charts & table)	Mar	14	29	Fluidized-bed boilers with guarantees to be offered by two firms N	Feb	21	37	from bans on pigments	Sept	26	24
Chlor-Alkali see also Caustic Soda;	*******			Fluidized-bed combustion: DOE wants				Ferro Corp. to acquire Dow, Exxon			
Chlorine				to sell big steam users on fluidized		-		color-concentrate businesses N	June		17
Chlorine				combustion N Fluidized-bed combustion: G.E. will try	May	23	35	Plastic colorants prices N	Feb	21	30
Chlor-alkali product prices	Sent	12	20	out some new ideas in fluidized bed				Columbia University			
Liquid chlorine prices N June 13-36 . N		20	32	combustion of coal N	July	18	42	Polycrystalline silicon studies	July	11	30
NRC committee calls for more research			-	Fluidized-bed combustion: ready for	Mar	7	36	Turro describes simple way to separate isotopes by weight at ACS meeting	Sept	14	44
on water disinfectants' effects N	June	0 20	56	generating process steam (flowsheet) Fluidized-bed combustion: TVA, Oak	Mar	,	30	Combustion, fluidized-bed see Coal	Sept	. 10	44
Non-electrolytic chlorine process uses heat from coal combustion N	Feb	7	36	Ridge, and Memphis LG&W projects	Sept	5	23	Commercial Development AssnMeeting:			
OSHA delays plan to set stricter ex-			-	Fluidized beds may be used to burn	· Inn	24	20	There's less room for petrochemical	lan	24	14
posure standardN	Feb	21	18	Fool's gold may boost the amount of	Jan	31	36	industry growth in the '80s	Jan	24	14
OSHA sets ceiling on exposure to chlorine.	July	25	23	liquids derived from coal N	Aug	8	31	Communications			
OSHA's revised standard for chlorine .N	Oct		14	Fuels and feedstocks outlook: more				Chemical firms plan hazardous-materials		40	
Outlook brightens: Producers boost				plentiful fuels, at loftier prices (chart). Gasification see Gasification	Sept	26	16	accident-data system N Other views: The media are in the castle	July	18	34
prices as demand increases and operating rates rise (charts & table)	Mar	14	29	GM researcher Agnew thinks coal is				to stay'. Irving S. Shapiro	Oct	17	5
Prices N Mar 7-32, N Sept 5-65 N	Nov		40	hope for fuel for autos	June	20	23	Tiny components = big markets (table) .	Nov	21	15
Chlorine see also Chlor-Alkali				H-Coal see Liquefaction				Compressed Gas Assn.—Annual meeting: UC's Sneath warns on using 'muscle'			
Chlorine Dioxide—NRC committee calls for more research on water disinfectants'				Indian land disputes see Law Lessing: government's coal lessing pro-				to set policy	Feb	7	20
effectsN	June	20	56	gram facing new problems as the							
Chlorobenzilate-EPA orders ban R		29	27	Interior Dept. attempts to restructure				Computers			
Chlorodiphenyl—NIEHS studies effect of chemicals on the fetus	lan	21	21	it and put it into effect again in 1981. Lignite: gasification, pelletizing tests	Oct	24	23	Chemical firms plan hazardous-materials			
Chlorofluorocarbons see Fluorocarbons	Jan	31	21	show way to more efficient use of				accident-data system N	· July	/ 18	34
Chloroformates-Prices N	Nov	21	24	lignite N	Aug	22	36	Control instrumentation: new systems aim at world market (chart)		, 2	55
Cholesterol-Studies give different views				Liquefaction see Liquefaction				Delk at ASME Industrial Power Con-	may	, ,	00
of cholesterol's role in cancer N	Jan	10	34	Oak Ridge develops way to recover aluminum from coal fly ash N	Oct	31	40	ference: 'Optimization program can be			
Chromotosouhu				Pipelines: Boeing seeks partners to build				written with practically no capital investment'	Oct	31	46
Chromatography Chromatographic method for separating				coal pipeline from Utah to West	Eab	14	18	Dept. of Interior computer model pre-		31	40
ethyl benzene and para-xylene from				Plant sites 1980—report. John M. Winton	Feb	14	10	dicts effect of various factors on deep-			
mixed-xylene streams: ACS meeting	Apr	11	45	How industrial power costs, charges				sea mining N		10	34
Gas chromatograph will purify perfume, flavor chemicals on plant scale N	June	6	35	for coal, oil and gas and reserves	_			Engineering drawings: Computers bring speed and professional quality to			
-Correction		20	56	Production increase will boost demand	Dec	5	78	engineering drawings	Feb	14	37
Pittsburgh Conference focuses on re-			-	for explosives (chart)	Aug	22	16	Foxboro's microprocessor-based systems			
finements	Mar	14	39	Solvent refined coal: designers of SRC				for distributed control called Spec- trum	Ann	25	48
for separating water mixtures (flow-				plants submit proposals for demon- stration units N	Aun	8	31	IIT computer system ranks chemicals		-	
sheets)	June	e 6	42	SRC-I coal-to-solids project	Aug	17	28	by potential health hazard N	Mar	7	35
Thin-layer chromatography is being				SRC-II pact signed by U.S. and Germans .	Oct		28	Integrated lab and office data systems save researchers time, money (chart)	Oct	10	47
adapted to detect mutagens and carcinogens	Feb	14	41	South Africa: coalplex, coal-based PVC	Aug	22	AE	Materials Consultants Labs' new system			41
				plant at Sasolberg has good first year Synthetic fuels see Fuel	Aug	22	45	to "fingerprint" airborne particulates			
Chroms				TVA sees threat from oil companies				from industrial stacks N	Jun	e 6	35
PPG Industries chrome chemicals busi- ness sold to Harrisons & Crosfield Ltd.	Oct	24	13	buying into coal, uranium	Mar	28	25	New microprocessors at petrochemical, refining exhibition in Houston N	Apr	11	41
USBM low-energy process regenerates	Jet	24	10	TVA tests new igniter for coal-fired units	June	20	23	Tenneco computerized order-processing	1	,	71
and recycles chrome etching solu-				Westinghouse demonstrating feasibility	Juni	. 20	2.5	and inventory-control system called	1		
tions N	May	16	43	of getting methane from unmined coal				TOPICSTexas instruments will open a network	. Ma	y 2:	3 16
Ciay				beds at coal mine at Waltz Mill, Pa. N	July	4	39	of process control schools N	Au		
Ciemical Week 300-report. Homer G.				Castings				Tiny components = big markets (table)	. No		1 15
Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39,	Mari	21	36	Coatings Bridge maintenance: specialties cut the				Concord Hospital—Australians show sili- con nitride works as bone and joint im-			
"The stately homes of England" in		41	30	bridge toll	Aug	29	52	plant	. Sec	n 2	6 69
miniature, replicas done in acrylic				Envirosol System for do-it-yourself							
modeling clay	Sep	t 19	55	paints and varnishes: New coatings work like solvent systems, but clean				Concrete BMI Ltd. to test market fly ash as			
Cleaners				up with water	May	16	42	BMI Ltd. to test market fly ash a concrete additive	No	v 1	4 51
Car-wash chemicals: sales outlook; pres-				Marine coatings: will new technology			-	Bridge maintenance: Specialties cut the	8		
sure is on to recycle	May	y 9	36	add life to the market?	July	25	42	bridge toll	. Au	g 2	9 52

Grace's Darex Corrosion Inhibitor added to concrete prevents bridge corrosion.N Condensers — Packed-column scrubber	July	4	39	Texas Instruments will open a network of process control schools N Converters—Radial-flow converter to make	Aug		38	Pollution control costs Business investment for pollution down, CEQ says	Jan	31	20
known as an autocondenser tames vapors at J.P. Stevens' Wallace, N.C.				sulfuric acid saves energy	Apr	25	58	Case studies estimate waste cleanup cost	May	2	16
plant	May	30	59	coal, startup products	July	4	33	Clarification	May	16	28
Conference Board	0.0	2	62	cate esters that withstand water	Mar	7	37	with government regulations total \$268 million in 1977 R	Feb	14	18
Aid to education survey	May			Cooling Towers				Environmental costs may curb chemical	reu	1-4	104
13 N Foreign manufacturing investments re-	Sept	15	13	A tale of three towers and a burn rap -Viewpoint	June	20	5	industry expansion: Survey of en- vironmental issues	Feb	21	41
port: United States leads the world. R Measure of Business Confidence survey:	Oct	17	28	-Letters Aug 1 5	Oct	10	5	EPA pollution-spending tally jars in- dustry (table)	Oct	17	24
Confidence in the future of the				More doubts about nuclear power	Apr		22	EPA quantifies savings from pollution	Apr	4	22
chemical industry fails in second quarter	June	27	17	-Letters June 13-5	Aug	1	5	EPA's modified 'offset' policy will		-	
Study warns of gr wing terrorism, adds to debate over taggants	Nov	28	23	Copper			50	permit 'banking' pollution costs Nitrogen dioxide limits under 750	Jan		16
Conference on Pacific Energy—China, too, faces energy and growth problems N	July	11	36	Chile: boon for mining chemicals R	Dec Apr	4	59 26	ppm.: cost could be staggering Pollution control outlay for chemicals	July	4	41
Conger, Harry C., vice-president and general manager of Calgon Corp.: Flying	oury		-	Cities Service copper expansion with two projects in Arizona R	Sept	12	28	on rebound (table)	May	16	46
helped his career to take off	Nov	7	60	two projects in Arizona R Coins: Susan B. Anthony "silver" dollars	June		40	billion in 1977 N	Mar	21	38
Construction				Israel: Timma copper mines will be reactivated N	Dec		56	RCRA: EPA data supports \$750- million cost	Jan	17	19
Air pollution rules have building plans up in air	July	18	48	Prices N Jan 17-36 N	Mar	28	28	RCRA's costly insurance and deposit rules may doom on site disposal	Mar	14	48
American firms can expect to receive fewer energy-development contracts				Copper Oxide—Prices N Copper Sulfate—Prices N		21	30	Regulatory costs Business Roundtable study puts a			
from Middle East says Parsons'	0-4	10	20	Corn—Gasohol plant feasibility study underway for Wisconsin co-ops N	Sept	19	43	price on regulation (chart)	Mar	21	21
Leonhard	Oct		28					EPA, White House battle over cost of regulation	Mar	7	20
Coyne seeks a slot in gas-plant con-	Sept	19	26	Corrosion fighters: Chem Show exhibi-				Legislation requiring that federal a- gencies conduct cost-benefit analyses			
Dow inspects buildings with mortar	July	25	35	Drew launches corrosion and scale	Nov	14	67	of all their new regulations to be introduced	Jan	17	22
additive Sarabond	Nov	28	22	damage prevention products Drewgard 187 and Amperplex	Jan	10	45	OSHA restates its opposition to cost-			14
for roads, drainage systems	June	6	32	Grace's Darex Corrosion Inhibitor said to prevent bridge corrosion N	July	4	39	benefit analyses N Regulatory Council's docket of pro-	May		
(chart)	Nov	21	25	to protest bridge correlation	July		30	posed 1980 rule-making actions Regulatory Reform Act of 1979:	Dec	12	19
Texas N	Feb	7	36	Cosmetics Chemical Week 300—report, Homer G.				procedures would require regulatory agencies to conduct economic ana-			
Sulfur-based road-paving material, dubbed Sulphlex, could replace				Starr (tables) Feb 28-41, Apr 25-33, May 30-49, Aug 29-36	Nov	21	36	lyses of their regulations	Apr	4	21
Tennessee-Tombigbee waterway project	Aug	15	18	Cosmo Expo takes a look at cosmetics				industry of pending regulations N Will rulemakers give smaller firms	June	6	14
proceeds despite challenges (diagram & map)	Apr	18	35	in 1980s	May	2	50	an edge?	Aug	8	26
U.S. construction outlook: 1980 dollar outlays to rise despite drop in units;				the creation of anhydrous cosmetics for its esters, dubbed Syncrowaxes	Sept	19	55	cost of relocation	Nov	14	80
resurgence coming in 1981 (charts) Worldwide engineering and construction	Nov	28	20	European market—research reports FDA finds nitrosamines in several	June		40	SACI Survey sees no end to boosts in cost of selling	Mar	28	31
industry in 1980: here's the way it	Dec	10	75	cosmetics N Italian cosmetics firms seek 'me-too'	Apr	18	14	SRC projects: Costs	Oct	17	28
looks to contractors (tables)	Dec	19	75	Jojoba plant may become a source of	Sept	26	69	slash solar cell costs N Synfuel program draws fire: Rand study	Sept	5	76
Consu er Product Safety Commission Appr ach toward chronic hazards:				cosmetics	Feb Mar	7	31	warns of cost overruns	July	18	22
CSI.A meeting	May	23	34	Kline, Charles H. market study R	Apr	18	21	proceeds despite challenges (diagram &	Apr	18	35
Council on Safety and Health as its Washington Policy Advisor N	Apr	11	18	Nail polish business: new ingredients give boost to \$150 million/year busi-				map)		26	23
Consumer-goods ingredient testing to be opposed N	Feb		14	Shiseido Co. licenses production know-	Aug	8	41	fertilizer cost	Colpre	. 20	20
Interagency Regulatory Liaison Group see under name				how to Pacific Chemical Industrial	Nov	21	22	claims new process cuts cost of nuclear			70
Withdraws its controversial policy on		2	14	Swiss market for personal-care pro- ducts	Jan	24	44	fuel by 90% (diagram)	Sept		73
Contact Lens-Marketers eye profits in	May			Wrinkle smoothers: Jovan jumps into hot new cosmetics market	Jan	10	45	recycling process	July	11	41
Contact Lens Manufacturers Assn.—Con-		3	38	Cosmo Expo 7-Marketing conference and exhibition	May	2	50	Cotton Ammonia mercerization helps new cot-			
tact lens business	Oct	3	38	and samplion	ividy	-	30	ton shirts shake out the wrinkles Cotton, Inc. is under scrutiny of USDA;	Feb	7	25
Containers				Costs				J. Dukes Wooters is object of direct	A	22	20
EPA plans rules for pesticide containers to protect workers	Aug	15	22	American Insurance Assn. report shows insurers are concerned about chemical				request for dismissal	Aug	22	30
Hawaiian court rules that a state law prohibiting the sale of beverages in				ASME's Industrial Power Conference:	May	30	21	rising oil prices will erase polyester's price advantage over cotton by 1985	Aug	15	17
plastic containers is illegal and uncon- stitutional R	Sept	5	23	emphasis on the practical aspects of cutting energy costs	Oct	31	46	Du Pont disputes fibers study Expected shortage of cotton is a strong	Sep	t 5	18
Hexagonal corrugated-board drums gain foothold in chemical markets		10	29	Celenese anaerobic-filter waste-water treatment system cuts costs, generates				plus for rayon markets	Jun	e 6	
Owens-Illinois plans corrugated shipping container plant at Tracy, Calif R		28		energy	May	23	42	Crutchfield, Jim, vice-president of mar- keting of Avtex Fibers Inc.: He weaves			
Owens-Illinois reports on bottle market				from natural gas, but burning coal is	Nov	21	48	a new career from familiar materials	Mar	28	64
Price-fixing suit settled	May		19	CPI operating costs: How 1979 increases				of Grace's Agricultural Chemicals Group:			
Contraceptive Devices-Robins' Dalkon Shield-brand intrauterine contraceptive				shape up (charts & table)	Jan	17	15	This fertilizer exec works farmer's hours	Oct		
device lawsuit: Jury says Robins must pay \$6.8 million	Aug	8	20	mical' Regulatory Analysis Review Group (RARG) finds R	Mar	21	26	Curring Agents—Moca in doubt; regulations	Feb	14	30
Stockholders get new try in A.H. Robins suit			25	conference zeros in on coal-gasification				may force processors to change cast- urethane specialties	Jun	e 13	48
Contractors				processes (tables & diagram)	Aug	8	32	Custom agents compare notes on con- trolled substances	Mar	. 7	42
American firms can expect to receive fewer energy-development contracts				cost data on pioneer process plants . N Diesel-fuel availability eases but wary	Feb	7	35	Cyanoacrylates			
from Middle East says Parsons'	0	10	28	shippers eye costs	July	18	52	Cyanoacrylates seek role as surgical	Au	29	51
Leonhard		10	28	goal at more than \$100 billion N	July	25	46	Engineering adhesive outlook sparkles		3 23	31
industry in 1980: here's the way it looks to contractors (tables)		19	75	Investments in worker safety and health: McGraw-Hill Economics Dept.				for acrylics, cyanoacrylates (table) Cyanogen—Cyanogen from hydrogen cy-		21	39
Controls				survey (table)	May		59	anide and oxygen: ACS meeting	Ap	18	
Beckman Instruments offers distributed process control N	Mar	. 14	37	maintenance tops \$1 billion (table) '79 bargaining: labor pacts will boost	July	25	48	Cyclohexane—Production up N	Au	29	33
Control instrumentation: new systems aim at world market (chart)	May	, 2	55	construction and operating costs (table)	Jan	24	11	D			
Flammable-gas detector, thermal sensing device, looking for work in chemical				on CPI profit margins		3	17	DOT			
plants	Aug	8	36	-Correction	Jan	10	21	Army refuses DDT cleanup at Redstone			
for distributed control called Spec- trumN		25	48	How industrial power costs, charges for coal, oil and gas and reserves				Olin for leakage	Fel	14	12
Packed-column scrubber known as an autocondenser tames vapors at J.P.		40	10	compare (table)	Dec	5	78	up DDT residues	Fel	21	25
Stevens' Wallace, N.C. plant		у 30	59	compare (table)	Dec	5	81	residents' blood	Ma	26	23

Michigan finds PCB, DDT levels drop in	Feb	21	25	FDA bans use of DES as feed-grain	luke	11	14	DNA-derived drugs: Hormones and vac-			
Great Lakes fish	rub	21	20	additive N Lilly, Eli & Co.'s DES case: Jury awards	July			cines may reach the market in two or three years	June	27	32
port. Homer G. Starr (tables) Feb 28-39, Apr 25-42, May 30-47, Aug 29-36	Nov	21	42	damages in DES case	July	25	21	three years			
Dechema-ACHEMA 1979: Less brow-	1404	21	72	Dimethyl Terephthalate				FDA resurrects its 1978 drug-reform bill	Mar	21	23
sing, more specific interest in invest- ment. Silke McQueen	July	4	42	Availability tightens	Apr	25	27	Drug-regulation reform proposals draw praise N	Mar	20	18
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mal sensing device, looking for work in			20	borohydride may help distillation ef- ficiency	June	8	35	Laxatives market		24	50
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Arab countries will build synthetic- detergent plant N	Nov	14	76	Life-form patent case to be heard by		-	00	sought by NRC	Aug	15	18
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gent raw materials at Canadian special- ties meeting	Oct	31	34	the promise of genetic engineering	Oct		29	drug N Cancer drug shows promise but	June	27	31 29
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Detergent packaging hit in consumer	Nov			More firms join the DNA race	June	27	32 6	testicular, ovarian cancers approved by FDA	Jan	3	34
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EPA's Engler describes "soil load test" at CSMA meeting	Dec	12	39	NIH panel gives nod to DNA work	Dec	10	22	Polypeptide drug COP, shows promise	Jan	31	42
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Lignosulfonates bid for jobs in tertiary oil recovery	May	30	55	Upjohn produces large protein—chicken				Reserpine: JAMA's Barclay blasts HEW reserpine study	Aug	29	22
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P&G expanding Staten Island, N.Y. plants N	Feb	14	9	Drafting-Computers bring speed and pro-				price guidelines	Sept	19	18
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Amvac told to cut DBCP emissions by California's DOSH	May	16	26	success with 13-cis-retinoic acid N	Feb	21	18	marketed by SmithKline R	May	9	21
California orders Oxy to halt pollution	· ····································			Advertising: FTC may ease advertising rules for over-the-counter drugs N		10	23	Turkish chemical industry: economic problems curb CPI output, petro-			
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as disclosure of memos implicate Oxy in water-pollution coverup	hune	27	23	as diet drugs N Anti-arthritis agent, Feldene, introduced		25	14	promise	Feb	14	17
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	July	,		Starr (tables) Feb 28-41, Apr 25-30, May 30-49, Aug 29-37		/ 21	35	business	Dec	12	21
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Chicago jury awards cancer victim \$800,000 in verdict against Schering-				cost route to steroids, hydrocarbons N	Jun	e 13	23	impels 4 dye-makers to sell out; others			40
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Strip-mining bill is "poorly suited" to non-coal mining says NRC report N	Dec	5	65	Biomass to ethanol without fermenta- tion: Experimental technology for				Spain's Petronor shelves plans for ethylene plant	Aug	1	32
Synthetic fuels see Fuel				turning corn husks, rice hulls and pine	1			Spanish plant at Huelva approved N	Aug	1	32
Toxic levels on sprayed farmlands measured with new device N	Nov	14	51	trees into ethanol	Nov Nov	28	38 49	Ethylene project delayed again	Oct	10	22
Toxicology Forum: needed - better				Brazil steps up use of ethanol in auto				process that can make ethylene from			
studies of links to cancer	Feb	14	39	Fermentation studies try to boost yields	Sept	26	53	resid to get pilot plant test N Ethylene Diamine Tetracetic Acid-	Oct 2	24	38
new felony offense called "endanger-	_			cut process time	. Aug	8	42	Stained glass: conservationists and re-			
Warrants to pollute may be warranted	Dec	12	26	-Letter	. Oct	10	5	storers are turning to a host of chemical specialties	Dec	19	82
-Viewpoint	Jan	31	5	engineering must be significantly im							
White House economists interference in regulation writing challenged by envi-				proved if ethanol made from biomass is to be used extensively as a motor				Ethylene Glycol Oxirane shuts down ethylene glycol			
ronmentalists N	Jan	24	10	fuel says consultant Prebluda		18	32	plant at Channelview, Tex., for an "indeterminate period" N Nov 28-34 N			
Environment see also Air Pollution; Waste Disposal; Waste Utilization; Water				Gasohol Amoco Oil challenges DOE's use of	f			"indeterminate period" N Nov 28-34 N	Dec		17 36
Pollution				entitlements to spur gasohol proj				Prices N Mar 7-32, N	June	13	30
				BATF receives applications for experi	l Nov	28	18	Ethylene Oxide Prices N Mar 7-32, Mar 14-20 N	June	12	36
Environmental Protection Agency Beck, Eckardt C. will head the agency's				mental plants	May	9	23	Singapore plantN	Aug	1	32
water programs; Swep T. Davis and				Brazil chemist Pimental describes hi country's gasohol program at AC				Ethyleneamines see Amines Euphorbia Lathyrus—Latex sap could			
James N. Smith also receive appointments	Sept	19	18	meeting	. Sept	19	44	become a major source of fuels and			
ments N Cancer studies see Cancer				Does 'geschol' really improve fue economy?	i May	2	53	feedstocks	Dec	12	53
Drinking water studies see Water Supply —Drinking water				Gasohol gets in on entitlements pro		2		Europe			
EDF sues EPA over recent ban on		20	10	Gasohol producers ready to star	l Oct	3	43	Capital spending: Europe spends big for little new capacity (tables)	Mar	21	29
PCBsN FIFRA see Law	June	20	18	their engines	. May	16	28	CEFIC says oil shortage and high costs			
HAOS study proves EPA's ozone stand- ard "should be re-examined"	Aum	1	18	tives may get the fledgling gasoho				pose problems in Europe N CEFIC study: further energy savings	June 2	20	45
New study challenges EPA's ozone	Aug	,	10	industry in gear	. Oct	31	45	will be difficult for Europe's chemical			
policy	Aug	15	36	mixtures (flowsheets)		6	42	firms	Sept	12	41
Disposal				Plant feasibility study is underway fo	r		43	by new theylene plants	Dec	19	22
Interagency Regulatory Liaison Group				Resolved: to become a "Positiv	8	10	43	Chemical firms nine-month results are encouraging N	Dec	5	51
see under name Interagency testing see Testing—Toxic				Thinker' on gasohol-Viewpoint	. Oct	24	5	Common Market hits U.S. fiber imports.	Nov		18
chemicals				Senate approves plan to set up office to oversee gasohol program , , , I		31	14	Dow slates 'world-scale' phenol plant for Europe N	Nov	28	17
Jellinek discusses new approach to clearing biorational pesticides N	July	4	39	Georgia-Pacific ships ethanol made from	n			Drug makers open attack on price con-			
Monitoring plan for toxic substances	Aug	22	36	wood sugar	R June	27	27	trols (chart)	May	16	33
readied N "One-stop permitting" regulations pro-	Aug	22	30	biomass is proposed	N Oct	31	40	in 1981, inviting stiff domestic com-			
posed N Other views: Jellinek chides pesticide	June	27	18	Octane pinch: Suppliers are readyin new gasoline additives for use whe	n			petition	July	18	39
makers on poor citizenship	Nov	21	5	lead is phased down (chart)			43	new trade and aid agreement N		18	38
Jellinek: Pesticide makers win a	Nov	28	5	Prices N Mar 7-32, N June 13-36 Single-cell protein process: Linde say	/S	12	32	EEC plans aid for mineral producers . N European Common Market Commission	Feb	21	48
Pre-manufacturing rules see Law-Toxic	1404	20		using oxygen instead of air raise	98		20	ban on aid to fiber makers will be		00	45
Substances Control Act Proposes licensed auditors to replace				single-cell protein yield Ethanoloamines see Amines		1	28	extended N European nations sign antipollution	June	20	45
agency pollution inspectors	Mar	14	37	Ethyl Chlorsanthemate-Stauffer Chem				agreement N	Nov	21	28
Regulatory Council's calendar: chemical industry ranks sixth	Dec	. 5	42	cal facility to manufacture insecticid intermediate ethyl chlorsanthemate	nt .			Foreign forecast: On balance, 1979 could be a pretty good year-report			
Regulatory Council's docket of proposed				its Edison, N.J. plant		28	28	(charts & table)	Jan	24	23
1980 rule-making actions	Dec	12	19	Ethyl Silicate				Kaiser and Estel plan a European combi- nation of aluminum operations N	July	25	13
chemicals inventory N	Aug		10	Products prices	N Nov R Feb		28 18	Labor: outlook for labor peace in			40
Sued for delaying TSCA testing rules TVA/EPA cleanup pact supported by	May	16	24	Staurier expansion at weston, mich.	n rep	14	10	European CPI is bright this year	Feb	21	46
White House		21	25	Ethylene				fragrances, cosmetics, amino acids	June		40
Settlement may get tied up in court TVA admits to error on steam plant	May	2	18	Australia: CPI buildup	. Feb	28	52	Methanol prices rise again in Europe . N Methanol shortages foreseen by 1990 N	Sept	13	53 40
scrubbers	Aug		21	plant at Botany site	N Feb	14	43	Monsanto may drop European nylon			17
U.S. Steel settles dispute N U.S. Supreme Court will decide what	May	30	14	BASF will pilot process to make eth- lene and propylene from methanol.	N Aug	1	27	business	May	16	22
EPA must do to hear public objec-		- 00	40	Cabo Negro joint venture	N May	9	13	Naphtha prices N Oil and chemicals. Era of peaceful co-	July	18	33
tionsN	Jun	e 20	18	Canada: capacity expansions set Canada: CIL closes ethylene unit	N Sept	5	69	existence?-report. Meyer Lurie (tables)	Oct		70
Enzymes				Edmonton Alta.; contracts to bu product	N Cont	10	39	It's different abroad Petrochemical firms must have strong	Oct	17	89
Enzymes speed blood testing Immobilized enzymes: Socal and Cetus	Mar	28	40	Canada: Quebec's Petromont plans t	N Sept	. 10	38	links to feedstock sources N	Oct	17	69
to construct pilot plant for biological				compete in world ethylene-produc	ts N Nov	14	76	Petrochemical industry outlook Plastics makers debata market co-	Jan	24	14
conversion of ethylene and propy- lene N	Oct	17	40	Cefic thinks Europe will be squeeze	rd	1-4		ordination (table)	May	30	25
Novo Biochemical Industries enzyme				by new ethylene plants Ethylene overcapacity: the end is	. Dec	19	22	Soda makers complain about dumping N Sulfur: contract sulfur price climbs in	Mar	7	33
fermentation plant in Franklinton N.C R	Mar	28	40	view (chart & table)	. Oct	3	32	Western Europe N	Dec	12	56
Epoxides-Viking starts up production				Feedstocks see Petrochemicals Forecast: Close ethylene balance ar	ard.			Toxic substances laws: push is on to harmonize U.S. and European toxic-			
unit at Minneapolis plant R Epoxies see Resins	Mar	28	25	possible shortages forecast for the	18			substances regulations	Mar	7	39
				1980s by USS Chemicals' Hamilton . G-P will buy Chilean ethylene for sa		16	32	U.S. fiber exports worry Europeans U.S. petrochemical industry under fire	Aug	8	17
Equipment				in U.S	N Aug	22	32	from European Community as a result			
ACHEMA 1979: Less browsing, more specific interest in investment. Silke				ICI Americas ethylene derivatives pla at Bayport, Tex	R Jun	e 6	22	of price control on oil and natural	Oct	10	18
McQueen	July	4	42	Contract to Brown and Root	R Aug		24	Waste disposal: Europe gets a grip on			
Some musings on the meaning of ACHEMA '79-Viewpoint	July	11	5	Japanese petrochemical makers see direct imports of naphtha	N Feb	7	24	World industrial growth will slow in	Aug	8	44
Chem Show 1979: CPI's Supermarket	No	14	66	Approval to import naphtha Netherlands: Air Products plans vin	N Feb	21	48	1979 N	Mar	21	28
1979 was a good year, but many think 1980 will be as good or better	Dec	12	45	acetate and ethylene emulsions plant		5	17	Worldwide engineering and construction industry in 1980: here's the way it			
				OECD sees slow growth through 1985 Oil and chemicals. Era of peaceful of	. Jan	24	14	looks to contractors (tables)	Dec	19	75
Esters BASF batch plant at Kearny, N.J R	Day	c 12	28	existence?-report. Meyer Lurie (table	s) Oct	17	70	Europe see also individual countries European Council of Chemical Manufac-			
Croda is promoting a new technology-		6 12	20	Refiners' share of ethylene capaci		17	78	turers Federations see Cefic			
the creation of anhydrous cosmetics for its esters, dubbed syncrowaxes		ot 19	56	rising	ut	.,		European Federation of Pharmaceutical Industry Assns.—Europe's drug makers			
	agl	10	00	some major product categories ha been 'on allocation' (chart)	ve Oct	31	15	open attack on price controls (chart) Evaporation—Elbow-separator evaporator	May	16	33 68
Estrogen				Philippines: Brazil proposes alcoho	ol-			Exploration-Sohio expanding explora-			
Contraceptives: competition for 'the pill' shapes up in lab; injections,				Price boosts spawn derivative price	N Nov	28	42	tion program via acquisition N	June	13	13
implants now under study release			E4	N June 13-36	N Sep	t 26	46	Eurologica			
drugs slowly, eliminating peaks Squibb's pregnancy-test drug Gestest:		t 17	51	Prices N Jan 17-35, N Mar 14-24, N Ju 6-26, N Sept 12-36, N Nov 21-24	N Dec	12	32	Explosions Caribe Isoprene's Puerto Rican units hit			
company settles suit over birth defects			24	Production N Aug 29-33	N Oct		37	by explosion and fire	Dec	19	21
out of court	Jar	17	21	Shell/Exxon projects in Saudi Arab mired in negotiations	Ni May	9	13	Cities Service's fire and explosion at Lake Charles, La., refinery knock out			
cancer	. Jan	10	18	Singapore complex gets go-ahead fro	m			process units	Oct	24	22
Ethane—Fill-in for crude: light hydro- carbons (charts)	No	v 14	20	Simple petrochemical complex mov	N Feb	7	24	tions at Commerce City, Colo, refinery			
Ethanol				forward	N Oct	31	30	in investigation of Oct. 3, 1978			
Bacteria speed up fermentation to make			4-	Socal and Cetus to construct pilot pla for biological conversion of ethyle	ne			explosion	Jan	24	17
ethanol for motor fuel N	Jul	ly 25	46	and propylene	N Oct	17	40	kills two, injures 101	June	6	21

Drexel parathion plant explodes in Memphis, Tenn	July	11	21	Phosphate fertilizer exports: Justice broadens probe N	Feb	7	29	Demand forecast: shipments, prices etc. (chart)	Apr	25	19
Exxon's Bayway, N.J. refinery fire and	Mar		24	Phosphate markets (charts)	Aug	1	25 29	Demand sets a new monthly record—			
GAF blast kills two at plant in Linden,				Plastics demand spurred by exports N Plastics exports N Apr 18-23 N	Feb	10	39	Fl report	July		23
N.J. Hooker's Tacoma, Wash. ammonia plant	Apr		26	Plastics markets: record volume tightens major plastics markets (charts & table)	Feb	28	15	tential continues to be big N Estech acquires some fertilizer interests	Mar	14	40
explosion: air leak probable cause !taly's Seveso incident see !taly	Nov	14	23	Polypropylene overseas sales are up 180% from 1978, but trend could				from Agrico Chemical N Fertilizer record is predicted for 1979-	June	20	17
Mobil's regional office in Eastchester,	Mar	7	22	reverse next year	Oct		29 25	1980-FI report N	Aug	29	33
N.Y. hit by terrorist bomb	(viai	,	22	Senate committee seeks export reform . Taiwan tightens control of intermediates	Mar			Forecast: domestic consumption will break all records	Sept	5	66
Krummrich plant in Sauget, III.: blast won't disrupt supplies	Aug	8	19	exports N Textile trade discussions between U.S.	Mar	28	37	Forecast optimistic: FI's annual meeting (chart)	Feb	14	31
Netherlands: UKF's Geleen plant ex- plosion tightens ammonia market N	July	25	36	and China N Toxic substances laws: push is on to	Jan	10	23	Inventories drop sharply N Oct 24-28 N Iran: Davy and H&G terminate con-		14	44
Northern Petrochemicals explosion and				harmonize U.S. and European toxic-		-	20	tracts N	May	16	35
fire at LDPE unit in Morris, III Osborne Chemical's Pennsauken, N.J.,	Apr		18	substances regulations	Mar	8	39 17	Italian chemical firms sign pacts with Russia	Nov	7	48
plant: Xylene explodes	Sept	5	23	U.S. producers need a 'measure' of protection-Viewpoint	May	2	4	Movement is picking up N NASA study says SST flights, fertilizers	Jan	17	35
forces cutbacks	Sept	12	19	-Letter	Aug	1	6	may enhance ozone layer N Nitrogen fertilizer produced by solar	Jan	10	33
of explosion and fire in 1977 at Port		.01	24	Worldwide approach to regulations				power N	Aug	8	31
Arthur refinery		31	21	needed to prevent severe technical and economic disruptions in international				Norsk Hydro acquires NSM to strengthen fertilizer position N	Sept	19	39
at Beauharnois, Que. plant R Union Carbide hopes to repair peracetic	Jan	17	22	chemical markets	Apr	25	46	Occidental Chemical plans plant near Dibblee Point, Ore	Feb	28	24
acid unit at Taft, La. by August N	Apr	11	17	Expositions ACHEMA 1979: Less browsing, more				Oil and chemicals. Era of peaceful co-existence?—report. Meyer Lurie			
Production resumes at Taft, La. plantR	Oct	31	23	specific interest in investment. Silke	forter.		42	(tables)	Oct	17	70
Vega Chemical's Beaufort, S.C. plant damaged by explosion and fire R	Jan	24	17	McQueen	July		42	duction capacities	Oct	17	74
Velsicol's EPN pesticide plant at Bay- port, Tex. down after explosion and				ACHEMA '79-Viewpoint	July		5 66	Oxy deal with Soviets	May	30	18
fire R	Jan	17	22	New energy for the equipment market. Cosmo Expo takes a look at cosmetics	Dec	12	45	with construction of phosphate ferti-	Non	21	28
Warner-Lambert execs face criminal charges in connection with a 1976				in 1980s	May	2	50	Phosphate fertilizer exports: Justice	Nov		
explosion at Chicle Division bubble- gum plant in Long Island City, N.Y	July	18	26	Petrochemical and Refining Exposi- tion N	Apr	11	41	broadens probe N Russian plans R	Feb	7 25	29 25
Explosions see also Railroads—Derailments				-				Russia's ouput falling short of goals . N Sales: good this year, better next-FI's	July	25	36
Explosives				F				annual marketing conference	June	20	34
Atlas and Novel form new team in explosives N	July	11	25	Farm Market - Pesticides flourish on farm				Saudi Arabia: Pullman Kellogg picked to design fertilizer plant N	Sept	5	69
Atlas Powder's addition to unit at Joplin, Mo	Feb	14	18	prosperity—National Agricultural Chemicals Assn. annual meeting	Oct	10	35	TVA's "fallen curtain" process cuts fertilizer costs	Sept	26	23
Coal production increase will boost demand for explosives (chart)	Aug		16	Fatty Acids				TVA's researcher Noggle reports air- pollution rules may be taking sulfur			
Conference Board study warns of	Aug	6.6	10	Croda is promoting a new technology-				out of green plants	Feb	21	23
growing terrorism, adds to debate over taggants	Nov	28	23	the creation of anhydrous cosmetics for its esters, dubbed Syncrowaxes	Sep	t 19	55	UN will sell fertilizers to developing countries below market prices N	Feb	21	48
Microtaggants help trace suspect in Baltimore bombing	July	11	41	Sinor-Kao fatty acids plant at Barcelona, Spain	Aug	15	24	Uranium wastes being tested as fertilizer for cattle feed	Oct	24	43
Rockcor's Astrofrac explosive fracturing				Federal Trade Commission				-Letter	Nov	7	8
gas from shale	Jan	31	37	Congress ponders curbs on FTC's			10	ferees warn about fertilizer problems, .	Oct	3	23
Exports				power		5	18	World fertilizer study, IFDC, TVA sees tightening markets (chart)	May	16	31
Administration pushes export credits, softens environmental restraints	Jan	17	17	dures for the way private organizations establish standards and give seals of				Fiber Producers Assn. (CIRFS)—U.S. fiber exports worry Europeans	Aug	8	17
Ammonia: Anhydrous ammonia im- ports surge, while exports drop N			23	approvai	Jan	3	39			-	
Asian countries plan a common market				Fermentation Bacteria speed up fermentation to make				Fibers Akzo may trim operations to boost			
for drugs N Balance of trade	Sept	19	39	ethanol for motor fuel N	July	25	46	profitability N Apparel-fiber inventory liquidation: end		2	60
Chemical trade surplus climbed 6% in 1978	Feb	7	19	Fermentation technology and process engineering must be significantly im-				seen N	Oct	24	28
Chemicals strike a better balance in world trade (tables)	Feb	21	31	proved if ethanol made from biomass is to be used extensively as a motor				Carpet fibers: Housing slump hasn't hurt carpet fibers (chart)N	Nov	21	25
-Letter	Mar		5	fuel says consultant Prebluda Ethanol: fermentation studies try to		18	32	China's growing chemical shopping list (table)	Jan	17	20
Canada may not be willing to export unlimited oil and gas unless U.S. opens				boost yields, cut process time	Aug		42	Common Market hits U.S. fiber imports. Courtaulds and UM&M form 50-50	Nov	21	18
petrochemical market to Canada Canadian Chemical Producers Assn. an-		10	18	~Letter Novo Biochemical Industries enzyme		10	5	joint venture to make and market		12	40
nual meeting: Trade experts have mixed visions of 1980s	Jun	e 20	25	fermentation plant in Franklinton	Mar	28	40	spun-woven fashion fabrics R Du Pont Kevlar aramid fibers projects			42
Canadian oil, gas: how much, how soon? (charts)		17	20	Pfizer opens fermentation recovery R&D center in Groton, Conn R		g 8	22	will triple capacity	May	30	13
Carter plan would consolidate trade				Single-cell protein process: Linde says		9 -	-	RPVS	Sept	12	20
activities into Dept. of Commerce Carter seeks backing for new trade plan;		25	19	using oxygen instead of air raises single-cell protein yield	. Au	g 1	28	for roads, drainage systems	June	6	32
chemicals stay aloof (charts)	Feb	7	15	Ferric Chloride—Prices	Sep	ot 26	46	ban on aid to fiber makers will be			
East-West trade China: better trade relations with				Inc. N May 16-17 F	Jul	y 25	24	extended	Dec		45 24
China ahead?	Oct	31	17	Ferromanganese-Explosion in UC's ferro		,		Great Britain's Margaret Thatcher, She's having an impact on CPI. Tim Keeley			
China will become a big petrochemicals exporter N	Dec	19	26	manganese furnace at Beauharnois, Que plantF	Jan	17	22	(charts)	Oct	24	32
U.S., China initial trade accord U.SChina trade agreement will put		23	17	Fertilizer Institute				from waste-gas streams N	Nov	21	46
U.S. in line for role in China's		y 18	18	Annual marketing conference: Sales good this year, better next		ne 20	34	India's CPI is stalled by political crisis (tables)	Sept	19	36
development N Ethylene market (chart & table)	Oct		32	 Annual meeting: optimism is the key 				Italian chemical firms sign pects with Russia			48
EEC and developing nations draw up new trade and aid agreement N		y 18	38	note (chart)	. Seg			Italian fiber makers gain some ground .N Italy: new government supports recovery	Jan	31	31
GATT see Tariffs Great Britain's Margaret Thatcher: She's				World Fertilizer Conference (4th): Conferees warn about fertilizer problems.		t 3	23	plans N	Aug	22	35
having an impact on CPI. Tim Keeley				Fertilizers				Italy: Snia Viscosa plans four plant closings this month N	July	11	36
(charts)	. Ser	t 24	32 33	Beker comes back strong, but stay	s No	v 28	28	Jemaica's new free-trade zone at King- ston poses new threat for synthetic-			
Iranian crisis: what toll in trade? Iranian crisis, world shortages of many	. No	v 21	17	Brazilians find alcohol by-products are efficient fertilizers	9	c 12		fiber makers N Japan's chemical industry makes come-	Jan	3	40
chemicals hike U.S. exports (table)	. Fel	21	19	California orders Oxy to halt pollution	3	12	. 50	back: tighter belts fatten Japanese			
Russia	No	v 7	48	at Lathrop, Calif., fertilizer and pesticide plant	. An	or 4	23	CPI's profits (charts & tables) Makers raise prices as they head into		26	54
Italy's chemical trade deficit has dou bled	Sep	ot 12	41	California plans to seek civil penaltie as disclosure of memos implicate Ox-	S			year of modest growth (charts) N National Boat Show: fibers find niche	Jan	17	38 15
Japan: Weaker yen, stronger exports (table)	5	v 21	33	in water-pollution coverup	. Jui	ne 27	23	Polyesters see Polyester	Jan		
Japan's chemical industry makes come	•	. 41		Chemical Week 300—report. Homer G Starr (tables) Feb 28-37, Apr 25-29	1.			Polypropylene see Polypropylene Potassium titanate fibers will bid for			
back: tighter belts fatten Japanese CPI's profits (charts & tables)	. Seg	pt 26	54	May 30-48, Aug 29-36	1	w 21	38	insulation and plastics jobs N Prices N Jan 31-24, N Apr 4-29 N	Mar	28	34
Japan's CPI is exporting capital as well as goods: Japanese companies now				government slows development (table China's growing chemical shooping lis	Jul	ly 26	37	Shipments N May 9-23 N Synthetics will have larger cost advan-	July	18	33
have 19 CPI affiliates in U.S. (chart & tables)	5	ne 6	16	(table)	. Jan	n 17	20	tage as oil tabs rise (charts)	Mar	28	19
LDPE exports soaring	Jar	31		lands with sludge	. Fe	b 28	3 23	UC to build carbon fiber plant at Greenville, S.C N		24	9

U.S. fiber exports worry Europeans	Aug	8	17	Commercial finance enables companies to use money they have yet to collect				having a impact on CPI. Tim Keeley (charts)	Oct :	24	32
				as collateral for a loan	June	6	40	Hercules annual meeting: sales surge during first-quarter	Mar		24
Filters & Filtration Australian oil industry wants to use				Puerto Rican government will hold				Hercules Giacco reports to New York			
filters to cut lead emissions N Celanese anaerobic-filter waste-water	Aug	15	38	talks concerning the \$50 million Corco allegedly owes R	Jan	10	21	Analysts	Feb	21	22
treatment system cuts costs, generates	Mary	23	42	Corco may okay bid from Arabian	Jan		14	-Giacco tells security analysts Inflation fight heats up with war of	Dec	5	24
energy Home water-filtration devices ineffective	May	23	42	Sesoil				words: CPI executives angered by			
in removing trihalomethanes tests done for EPA indicate N	Juni	27	18	deal N Corco's common stock trading R	Mar June	7 20	13 28	criticism from COWPS' Kahn	Apr	4	31
CONTROL OF EACH PROPERTY OF THE PARTY OF THE				Corco emerging from Chapter XI on		4	13	firms raise \$1 billion on the outside (tables)	Oct	10	16
Financial				its own?	July		26	International activities of U.S. chemical			
Air Products and Chemical's Baker report to Houston analysts	Mar	14	17	Corco settles claims, has takeover offers	Dec	5	22	Iran: Political-risk coverage in Iran only	May		19
Akzo may trim operations to boost			60	Conference Board Measure of Business Confidence survey: Confidence in the				\$54 million	Dec		21 17
profitability N Akzona Inc. diversification payoff:	May	2	60	future of the chemical industry falls				Italy: Ailing Italian firms may get new			
Ramsey before the New York Society of Security Analysts	May	9	18	in second quarter	June	27	17	financing from banks N Italy: Arab stockholders will take close	Jan		32
Akzona, PPG boost sales and earnings:				upswing	May	2	62	look at Montedison's finances N Italy: Creditors seek repayment plan as	May	30	28
third quarter	Oct		23	change rates can help, or hurt, overseas				CPI losses exceed \$1 billion (table)	Jan	31	32
fields	Sept	19	39	DOE is readying shale-oil loan guaran-	Dec	12	63	Italy: Kuwait puts lien on SIR's Sardoil oil refinery	Aug	15	29
line under proposed stock plan Allied charts a new course: Edward	Mar	7	46	DOE seeks \$9-billion budget for 1981	Nov		23 26	Italy: Montedison gets some debt- payment relief N		14	43
Hennessy sets quick pace in search of				Dexter bets on growth throughout		5		Italy: Montedison's sales and earnings			
higher profits	Nov	7	42	Diamond Shamrock sales and earnings	Aug	8	19	for '78 N Italy: Montedison, unions move to force	Apr	4	44
touchy issues	May		19 26	second quarter '79: some recession	hater	10	20	government to solve Italy's CPI problems N	Apr	25	17
American Cyanamid counting on record				signs	July	10	26	Italy: Montefibre asks for help to avoid		8	25
1978 earnings	Jan	3	20	CPI companies boost dividend rates (chart & tables)	Feb	14	10	bankruptcy N Italy: new government supports re-	Aug		
Affleckat Cleveland Society of Security	May	9	18	Dividends advance despite the downturn				covery plans N Italy: no progress in bailing out Italian	Aug	22	35
Analysts				(table)	Sept	19	23	companies N	Dec	5	51
not a Viewpoint	Feb	21	5	South Africa policy	Jan	17	34	Italy: SIR's problems move toward solution	Feb	14	43
Oxirane's Channelview, Tex. ethylene	Dec	5	17	tions	Feb	7	27	Italian banks move to bail out SIR finances	May	23	20
glycol plant N Ashland Oil: Divestments were part of	Dec	9	17	-Letter	Mar	28	5 25	Japan: chemical companies report im-	····uy	20	20
corporate strategy to tighten up, sort out; chemicals still play big role	Mar	21	43	Du Pont planning to hedge against shortages	June	6	13	proved sales and earnings in first-half fiscal 1979 N	Nov	28	42
Badische Corp. sees stronger sales growth ahead; capital spending plans	lan	17	17	Du Pont plans big investment in Brazil N	Feb	7	13	Japan's chemical industry makes come- back: tighter belts fatten Japanese			
Borrowing: despite high interests CPI	Jan	17	17	Du Pont sees overseas business growth ahead: Simeral at San Francisco security				CPI's profits (charts & tables)	Sept	26	54
firms raise \$1 billion on the outside (tables)	Oct	10	16	analysts meeting N Du Pont's stock split is a major pro-	Sept	26	13	Japan's CPI is exporting capital as well as goods: Japanese companies now			
Brazil devalues currency, changes trade	Dec		26	duction	June	13	45	have 19 CPI affiliates in U.S. (charts	June	6	16
Brazil's inflation rate will exceed 70%				Du Pont Canada's investment program is paying off N	Nov	21	28	& tables)	June		42
this year	Dec	5	51	Eastman Kodak's capital expenditures in 1979 will be \$609 million, 30% for				Japanese chemical and fiber sales and profits up sharply (table)	Nov	21	33
will CPI flourish? (charts & table)	Jun	e 27	20	chemicals	Jan	24	9	Japanese chemical outlays will rise in fiscal 1979 N	Dec		56
Canada's chemical industry is growing steadily, despite sluggish economy				Educational effort by business called 'feeble'	Aug	29	49	Japanese CPI plans to increase spendingN		23	30
(chart & tables)	Apr	11	49	Europe's nine-month results are en- couraging N	Dec	5	51	Johns-Manville signs credit deal with 12 banks N	Jan	10	13
ence Board N Mar 14-13 N	Sep	t 5	13	FMC's Tower reports to N.Y. security				Kennecott Copper's Barrow reports to	Feb		22
Capital spending: CPI outlays up, following rise in operating rates (charts			-	Federal budget: Pared down budget	Feb	21	22	Salt Lake City financial analysts Kerr-McGee expansion plans outlined	ren	21	22
& tables)	May	9	15	bets on long-term research (table) Federal Reserve Board's actions to	Jan	31	14	by Dean A. McGee before N.Y. security analysts	Feb	7	21
little new capacity (tables)	Mar	21	29	tighten credit: CPI has mixed feelings .	Oct	17	22	Loctite's growth plan: sticking to			19
Capital spending: Oilers step up outlays for plants, feedstocks	No	7	17	Financial Accounting Standards Bd. study of effect of its statement on				Maybe things aren't so bad after all—	June		19
Capital spending: PPG to boost outlays; sees no 1979 'nosedive'-Williams and				foreign currency fluctuations finds no effects on common stock prices of				Viewpoint	Dec Nov	19	25
Burrell report to N.Y. security analysts . Capital spending abroad to rise: McGraw-	Mar	30	19	multinationals R	Jan	24	17	Monsanto bullish on 1979 sales: Kerley		7	21
Hill Dept. of Economics survey of				FASB wants more data on inflation and prices in financial reports N	Jan	17	13	reports to Chicago security analysts Occidental's Casriel reports to Chicago	Feb		
overseas operations of U.S. industrial companies (table)	Au	29	22	Forecast '79: Mixed fortunes for year ahead report (charts & table)	Jan	3	25	Oil and chemicals. Era of peaceful co-	Mar	14	17
Capital spending in 10 chemical lines:			12	Forecasting: Despite SEC's urging, com-				existence? - report. Meyer Lurie	0	17	70
moderate rate of growth seen N Capital spending keeps pace with in-	July	y 25		panies are still wary about forecasting. Foreign affiliates of U.S. companies:	June	20	39	(tables)	Oct	17	
flation (chart & tables)	Jan	3	14	Spending abroad will rise following	May	9	39	Olympic Games get corporate financial	Oct	17	82
growth (table),	No	v 7	18	1978 drop	May		00	support	Feb	7	27
Cash flow fills most of need for working capital: Chemical Week's analysis of				nual survey of the 100 largest CPI firms headquartered outside the U.S.				beleaguered enterprise. William E.			
flow-of-funds data (chart & table) Celanese's annual meeting: earnings out-	Ap	r 4	19	(tables)	Aug	15	30	Other views: Budgets and forecasts:	Apr	4	5
look good	Ap	r 18	19	could be a pretty good year-report.			00	necessary evils. Jan Wallander Other views: Business and government:		3	5
CMA's 107th Annual Meeting: CMA plans an activist role in a future that				(charts & table)	Jan	24	23	an alliance for growth. Edward Donley	July	18	5
hints of moderation	Jur	ne 13 y 16	19 20	foreign investments in U.S. chemical industry.	Feb	7	28	Outlook for 1980: leaner economy, fatter payrolls; major wage pacts up			
CPI stocks: starting to rebound (charts).	No		16	Foreign manufacturing investment re-	1 00	,	20	for renewal in 1980 (chart & table)	Dec	19	19
Chemical Week 300—report. Homer G. Starr (tables)				port from Conference Board: U.S. leads the world R	Oct	17	28	Payoffs and political contributions Allied and executive indicted on kick-			
In late-1978 upswing top CPI com- panies gains surpass the rise in GNP	Fel	28	37	Freeport Minerals Co. diversification program: company now holds a "full				back charges by grand jury Allied pleads on two income tax		25	24
Correction	Ma		20	house" of profitable businesses	May	23	17	charges	Aug	8	20
companies hit new highs in sales and				Fuller's Andersen reports to Chicago analysts	Mar	14	17	Goodrich (BF) pleads no contest on tax charges	Jan	24	17
earnings, but only modest gains in profit margins		. 25	20	G-P's capital-spending program: \$200	Aug			Petrochemicals prosper, fuel outlook brightens, Royal Dutch/Shell Group			
Margins are modest, but gains look		r 25	28	million on eight capital projects N German chemical makers more con-	Aug	8	13	and Northern Natural Gas executives		-	
Though GNP falters, CPI earnings	Ma	y 30	45	cerned about the weakening of the U.S. dollar than about revaluation of				tell N.Y. financial analysts Petroleum: Loose talk of 'obscene' oil	Oct	3	21
rise	Au	g 29	34	the Deutsche mark N	Oct	3	31	profits is itself obscene-Viewpoint	Nov Dec		12
-Letter (cover correction)	No	v 7	8 34	German CPI regains some vigor. Silke McQueen (charts & tables)		20	47	The continuing saga of 'obscene" oil			
Chesapeake Corp.'s Camp reports to Philadelphia analysts	Ma	r 14	17	German fibermakers still in red Grace chairman says the U.S. is just	Dec	5	24	Phillips' Howard reports to security	Dec	5	5
China's chemical output grows, but government slows development (table)			37	entering the beginning of a recession	84-	20	22	analysts in Salt Lake City, Utah: Phillips wants broader markets for			
Chrysler aid package in Congress could		y 25		that he expects will last six months. R Grace, W.R. considering possibility of		30	22	plastics	. Mar	21	22
have widespread effects on CPI (table). Cleveland CPI firms given little sey as		c 19	23	splitting up operations into a number of publicly held companies	Oct	10	18	Plant sites 1980—report. John M Winton (charts, tables, maps)	. Dec	5	71
city's problems mount	Jar	31	33	Great Britain: budget proposals cause		20	46	How states compare on chemical industry growth and selected business	1		
dollars	Jui	ne 27	40	some concern N Great Britain's Margaret Thatcher: She's	Junt	- 20	70	climate factors (table)	. Dec	5	74

Pollution control-business: hopes top profits in pollution control	Nov	7	52	Tight-money symptom: buyers 'pay up' with less alacrity (chart & table)	Dec	5	19	Fluorescent Materials — Microtaggants help trace suspect in Baltimore bombing	July	11	41	
Profit prospects take a turn for the better (chart & table)	Mar	21	19	Turkish chemical industry: economic problems curb CPI output, petro-				Fluorocarbons				
Puerto Rico: problems in paradise- report, Meyer Lurie (charts & tables).	Apr		56	chemical buildups	Mar	28	39	Aerosols stage comeback after several lean years (chart)	May	23	32	
Recession: is there a recession? Answers	Sept		16	own a share in Carbide's subsidiaries	Dec	19	24	Du Pont to triple "Freon" 14 output at Chambers Works in Deepwater,	,			
The recession is here, economist tells				in Puerto Rico	Aug	1	18	N.J	Apr	18	20	
CCA	June	20	24	Union Carbide's annual meeting: some touchy issues	May	2	19	Fetal safety controversy see Cancer Fluorocarbon controversy				
six views	Oct	24	47	Union Carbide's Sneath and Anderson, at meeting of security analysts in				Aerosol sales: out from under ozone cloud	Nov	21	22	
Regulatory Council's docket of pro- posed 1980 rule-making actions	Dec	12	19	N.Y., lay out company strategy through 1983 and explain reassign-				FDA ban on nonessential uses of fluoro- carbons is now fully in effect N	Apr	18	14	
Reichhold's annual meeting: earnings			19	ment of key officers	Sept	19	49	Ozone: NAS report on ozone will not lead to immediate action by EPA R	Nov		42	
outlook good	Apr		-	Uniroyal Chemical sees record year in 1979: Calarco upbeat on chemicals	Oct	17	23	Ozone see also Ozone	1000		74	
small ones House report says N R&D spending: Carter makes pitch for	Jan		23	Uniroyal's chemical units shows gains despite firm's over all losses	Aug	22	18	Fluorspar—Allied to sell fluorspar mining and milling operations to Equities				
federal R&D support N R&D spending: chemical R&D tabs rise,	Apr	4	18	USDA questions spending practices of Cotton, Inc N	Sept		14	Holding Corp	Aug	1	18	-
pace slackens—NSF report (table) R&D spending: Chemical R&D tabs will	Apr	18	32	Wage-price quidelines see Prices—Wage- price quidelines	oope			Fly Ash BMI Ltd. to test market fly ash as				
increase by 10% in 1979-McGraw-	Mari	22	36	Witco's Wishnick and Sonneborn report				concrete additive	Nov	14	51	
Hill survey; NSF study (tables) R&D spending: Federal budget (table).	May Jan	31	14	to N.Y. analysts, sales goal: \$1 billion by early '80s	Apr	4	25	Oak Ridge develops way to recover aluminum from coal fly ash N	Oct	31	40	1
R&D spending: NSF predicts 1980 R&D spending in U.S. will top \$57				World industrial growth will slow in 1979 N	Mar	21	28	Researchers are out to recover the mineral riches in fly ash N	Feb	14	36	,
billion N R&D spending: NSF report says nation's	May	30	14	Financial Executives Research Founda- tion-Educational effort by business				University of Calif, researchers suggest new type of particulate collection for				
universities play key role in basic	Jan	24	10	called 'feeble'	Aug	29	49	mutagenic fly ash N	June	13	23	J
R&D N R&D spending: NSF says industrial	Jan	4.7	10					Fouri CPSC weighs furniture flammability				
R&D rose 11% to \$29.9 billion in 1976-1977 N	Mar	28	18	Fires BASF warehouse fire destroys supplies				standard	Nov	14	41	
R&D spending: U.S. R&D handled over- seas is rising fater than that in U.S N	May	16	43	of pesticides and plastics N Canada: Gulf Oil Canada's Montreal	June	27	36	Gossamer Albatross, pedal-driven air- plane using plastics composites and				
R&D spending: U.S. R&D spending will top \$50 billion in 1979 N	Jan	3	34	refinery damaged by fire R Caribe Isoprene's Puerto Rican units hit	Feb	21	26	film will attempt to cross the English Channel	Mar	28	22	,
Rhone-Poulenc healthy says chairman	Oct		20	by explosion and fire	Dec	19	21	Man-powered aircraft crosses Channel .	June			
Rhone-Poulenc raises cash through				Cities Service's fire and explosion at Lake Charles, La., refinery knock out				Grace grooms urethane foams for prison mattresses, personal care items.	Jan	3	42	t
Rohm and Haas' Gregory reports to	Nov	14	76	process units	Oct	24	22	TDI outlook: flexible-foam market grows (charts)	Jan	24	35	i
financial analysts: trend toward higher earnings continues	Oct	17	22	Memphis, Tenn	July	11	21	UF foam: Rapco Foam-Scientific Appli- cations UF foam process to go to				
Sales and earnings Fourth-quarter results come on strong.	Jan	17	18	resid-refining unit	Oct	24	22	trial	Nov	14	25	j
Fourth-quarter 1978 (table)		24	13	explosion	Mar	28	24	makers launch safety studies as DOE				
Fourth quarter: Year-end surge gives momentum for CPI in '79 (tables)	Jan	31	16	Fire tests help FAA rate aircraft interiors	Jan	24	44	ponders new limits; tough CPSC standard due soon	Nov	28	36	5
Fourth quarter '78: Late flurry boosts 1978 profits figures (table)	Feb	7	17	Indiana Standard's Whiting refinery hit by fires	Feb	21	26	UF foam insulation: Massachusetts bans UF foam insulation	Nov	14	24	ı
Fourth quarter: Still cautious after good quarter (table)	Feb	14	15	Northern Petrochemicals explosion and fire at LDPE unit in Morris, III	Apr		18	Formaldehyde Institute sues Massa- chusetts over formaldehyde ban	Nov	21	18	
First-quarter: Earnings strong in first quarter (table)	Apr		21	Osborne Chemical's Pennsauken, N.J.,				Urethane trade organization asks for				
Second quarter: Looking for volume	Ahi	20	21	plant: Xylene explodes	Sept		23	national combustibility performance standard	Sept	12	25	ś
gains to aid in the second quarter (table)	May	2	20	Shell's Deer Park, Tex. complex: fire	Mar	14	20	Food				
Quarter's still strong for CPI (table) Midyear mood: elation mixed with	May	9	20	forces cutbacks	Sept	12	19	Beatrice Foods Co. finds recipe for success in specialties	Sept	5	71	1
anxiety (tables)	July	25	16	acid unit at Taft, La. by August N Production resumes at Taft, La.	Apr	11	17	Chemical Week 300-report. Homer G. Starr (tables) Feb 28-39, Apr 25-42,				
and oils (table)	Aug	1	15	plant	Oct	31	23	May 30-47, Aug 29-36		21		
but earnings are up (tables)	Oct	24	16	First Midland Conference on Advances in				FDA preparing report on chemical	Apr			
Third quarter: earnings are spurred by worldwide business (table)	Oct	31	18	Chemical Science and Technology— Midland Conference seeks ways to				residues' effects in food N Grace completely out of packaged	Feb	21	18	5
Sales and earnings continue strong Specialties companies sales and earnings	Nov	7	22	bridge industry/academic gap N Other views: do we really need a	Oct	24	38	foods business with sale of Barilla S.p.A. to Finbarilla S.p.A N	Aug	8	13	3
up	Nov	7	41	chemical industry? Paul Oreffice Midland meeting aim: tilting R&D	Oct	31	5	Nitrite-free bacon test-marketing starts.N Packaging see Packaging	Mar	14	14	8
panies see under company name in Company Index				upward	Oct	31	29	P&G expanding Staten Island, N.Y.	Feb	14	9	0
Sales outlook: modest sales gains seen-				to lower PCB limits for fish N	Jan	10	23	plants N	1.00			
McGraw-Hill Economics Dept. fall survey (table)	Dec	19	46	Fishing—Coast Guard probe clears sodium bisulfite in asphyxiation death of two				Food Additives CMRA meeting hears Delphi Marketing's				
Saudi Arabian economic growth slow- down seen in Rand Corp. study	Jan	31	18	crewmen aboard shrimp fishing vessel	Aug	22	37	Giragosian discuss food additives Delaney amendment repeal called for in	Feb	21	40	0
Schering-Plough to buy more of its common stock N	May	2	13	Flame Retardants				new bill	Jan	31	23	3
Shell Oil's Bookout reports to financial analysts: trend toward higher earnings				Cellulose insulation standards see In- sulation				Fabricated foods market gaining Food markets pick up for protein	Apr	18	31	В
continues	Oct	17	22	CPSC weighs furniture flammability	Nov	14	41	additives	Aug	1	31	8
Society of Chemical Industry symposium deals with "economic and political				CPSC defers decision N	Dec		18	nitrite phaseout	Apı	4	2	1
factors affecting the international chemical industry"	Oct	10	19	Flame-retardant markets: CMRA meet- ing (table)	Dec	12	41	Specialty chemicals discussed at CMRA meeting		21	41	0
South African investments are banned by Sweden N	June	20	46	Monsanto's phosphorus-based fire re- tardant Phos-Chek XAF to combat				Food and Drug Administration				
Spain: Foreign investment in CPI rises			46	forest fires	Mar	28	40	Califano leaves HEW post without		25	14	
SRI sees sharp drop in world chemical	June			Velsicol building tetrabromophthalic		24		filling top FDA position N Commissioner Kennedy resigns to take				
Sri Lanka liberalizes policies, seeks	Mar		24	anhydride plant in El Dorado, Ark R	Jan	31	21	post at Stanford N Goyan, Jere new commissioner, plans			5 11	_
investors N Stauffer's board OK's 2-for-1 stock	May	9	39	Flavors & Flavoring Bayer's Haarmann & Reimer after more				to fullow Kennedy's lead at FDA Interagency testing see Testing-Toxic		19	2	3
split	Feb	28	22 24	of U.S. market	Jun	e 20 e 27	42	chemicals FDA regulations, standards etc. see under				
Stocks: Wall Street says some CPI segments will outdo market in 1979-				Gas chromatograph will purify perfume, flavor chemicals on plant scale N		e 6	35	specific products Forests-Rapid tree-growing may make				
1980 (tables)	July	11	16	-Correction	Jun	e 20	56	forests major source of CPI products	Jan	31	4	8
Sun Chemical Corp. stock offering R Sun finds stronger petrochemicals mar-			24	to new methods to make flavors and				Formaldehyde				
gins	Dec		28	Floors & Flooring-No-wax flooring dis	Oct		46	CIIT shows formaldehyde may cause cancer in rats N		17	7 4	0
rencies		9	39	cussed at CSMA meeting	Dec	12	39	G-P's capital-spending program: \$220 million on eight capital projects N			3 1	3
usual?	Jan	12	23 27	flotation process removes solids from waste streams (flowsheet)		24	39	Prices N Aug 8-23, N Sept 12-36 N	De	12	3	
Texasguif's Fogarty reports to financial		1.4		Flotation Agents-Dow Chemical xan		6.4		Urea-formaldehyde foam; Rapco Foam- Scientific Applications UF foam pro-				
analysts: trend toward higher earnings continues.	Oct	17	22	thate-based flotation agents: worldwide sales to be discontinued	Sep	t 26	69	Cess case to go to trail		w 14	4 2	0
Lehr at Chicago security analysts				Fluchloralin-BASF Wyandotte in litiga tion with Michigan over an alleged	1			makers launch safety studies as DOE ponders new limits; tough CPSC				
meetingN	Sept	12	13	discharge of Basalin into U.S. waters	Dec	12	24	standard due soon	. No	w 28	3	36

Urea-formaldehyde foam insulation: Massachusetts bans UF foam in-				DOE calls for stepped up synfuel	June	6	20	Pentagon seeking approval of an Army plan to build a new nerve-gas plant at			
sulation	Nov	14	24	Congress pushes for synfuels	June		20	Pine Bluff, Ark	Nov 2	21	21
Formaldehyde Institute sues Massachu- setts over formaldehyde ban	Nov	21	18	Exxon gets DOE contract to study stability of synthetic fuels N	June	13	23	dustrial-gas venture N	Jan 1	17	13
Forney, Robert C. of Du Pont: This engineer has a wife who understands	July	18	60	Senate offers energy bill, stresses synfuels	June	20	23	Scotland's gas-separation plant de- layedN	May	9	40
Forum for Americas—GM researcher Agnew thinks coal is hope for fuel for				House passes synfuels package Synfuels: How much, how soon?-	July	4	20	Construction still in doubt: Shell and Esso fight for U.K. petrochemical			
autos	June	20	23	Views of companies' executives			00	U.K. gas-separation unit is okayed,	July	4	48
Fragrances				(charts)	July	18	20	faces more delay N	Aug :	22	35
Bayer's Haarmann & Reimer after more of U.S. market	June	20	42	study warns of cost overruns Congress favors energy plan; may not	July	18	22	Gas-separation unit is challenged again	Oct	3	31
European market-research reports Haarmann & Reimer symposium points	June	27	40	give Carter all he wants	July	25	18	TVA to test use of gas from coal in fuel cell pilot plant N	Dec	19	70
to new methods to make flavors and	Oct	3	46	Fluor puts costs to attain 1990 syn- fuels goal at more than \$100 billion N	July		46	Union Carbide to build major industrial gases plant at Brownsville, Tex N	Nov	21	13
fragrances				New knocks for synfuel program Carter warns of tradeoffs between	Aug	1	14	Gas see also Natural Gas and Specific gas	1101		
scents and sex	Sept	12	53	energy, environment N Coel conversion technology: Pettsburgh	Aug	8	14	Gasification			
France				conference zeros in on coal-gasifica-	A		22	Air replaces oxygen in new coal gasifier from Germany	Mar	21	37
Capital spending (table)	Mar	21	30	tion processes (tables & diagram) Indians seeking funds from DOE to	Aug	8	32	Brazilian ammonia-from-coal project. N Carter Oil seeks partner for coal-		21	38
plex to produce "Saranex co-extruded		40	04	aid tribe's synfuel plans	Aug		19	gasification plant near Troup, Tex N	Oct	10	13
multilayer barrier films" R Foreign forecast: On balance, 1979	Aug	15	24	tells how synfuels plan emerged IGT proposes hefty synfuel plant	Aug	29	23	Coal conversion technology: Pittsburgh conference zeros in on coal-gasifica-			
could be a pretty good year-report (charts & table)	Jan	24	23	program (table)	Sept	12	19	tion processes (tables & diagram) DOE gives go-ahead to Conoco Coal	Aug	8	32
Labor: Outlook for labor peace in European CPI is bright this year	Feb		46	Sasol chemicstry ready to go to work in U.S. synfuels programs (flowsheet).	Sept	12	45	Development and ICGG design projects N	Feb	7	35
Morhange talcum powder case (1972):			40	-Letter	Oct	10	5	DOE wants coal-gasification users to		25	48
French criminal court begins to hear testimony	Oct		22	panies and two alcohol producers for entitlements available to producers				share know-how N Feasibility of making gas from heavy-oit			-
Oil deals with Irag and Mexico N Piggyback sales beef up French chemical	Mar	7	33	of oil substitutes	Sept	26	24	residue is subject of study N First commercial coal-gasification proj-	Nov	7	47
firmsPolyolefin markets	Aug	13	30 38	\$20 billion for synfuel develop-				ject in the U.S. approved by FERC in Beulah, N.D N	Neu	21	40
Rhone-Poulenc expands aspirin ca-			48	mentN Texas Eastern eyes mid-1980s for	Oct	17	18	Germany: coal-gasification process will		21	46
Rhone-Poulenc eyes a U.S. acquisition		18	19	omb may scale back DOE's synfuel	Oct	17	24	be tested in West Germany NCorrection N	Mar	7	35 37
Acquisition bid for Anken Industries Rhone-Poulenc finding jobs for workers	May	9	18	request	Oct	24	18	Germany's coal-gasification pilot plant to use nuclear heatN	Dec	10	70
it laid off	Jan	10	42	Occidental Petrol: m retorts to pro-				Grace plans gasification switch to make			
Gandois	Oct	24	20	duce oil sh situ; Gulf's coal gasification in a steeply slanted				gasoline at Henderson, Ky	Sept	14	9
Rhone-Poulenc, is "on the road to recovery" N	June	20	45	coal seam	Oct	24	24 22	Gulf's coal gasification in steep seams: project moves forward	Oct	24	24
Rhone-Poulenc raises cash through stock issue N	Nov	14	76	Fight shaping up over synfuels pro-			20	Illinois coal-gasification demonstration plant near Wood River using "Kilngss"			
Shell Chemie commissions polypropy- lene plant at Barre Chemicals complex R	Apr	10	21	Synthetic Fuels Corp. bill heads for	Nov		-	technology gets go-ahead R		24	17
Tax authorities look at Abbott Labs	Nov		41	House-Senate conference N Synthetic oil: tapping the gopher-	Nov	28	18	In situ coal project: three ready to bid In situ gasification: Gulf Research will	Oct	31	22
Waste disposal: Europe gets a grip on wastes	Aug	8	44	TVA sees threat from oil companies	Dec	12	53	gasify coal in steep seams N Ken-Tex seeks DOE coal-project funding.		19	43 26
Freeman, S. David, TVA's Chairman: He aims to clean up 'garbage can' of wastes.	Aug	15	48	buying into coal, uranium	Mar		25	Lignite: tests show way to make more efficient use of lignite N	Aug		36
	,		-	Wood-to-oil process tests are favorable Fuel see also specific fuel, Coal; Natural	Aug	15	23	New Mexico coal gasification project			
Freight Rates Colombia shipping rates contested by				Gas; Petroleum etc. Fuel Additives—Boiler-fuel additives: e-				is abandoned		28	34
Chemical firms	Feb	7	22	mission rules, high fuel oil prices putting new life into boiler-fuel additives	Oct	31	33	South Africa will expand coal gasifica-	Oct	24	18
Service R	Aug		24	new me mico boner-ner suchtres	OCI	٠.	00	tion plant, Sasol II	Mar	7	23
ICC authorizes rate increases N ICC increases rail rates for chemicals	Jan Oct	17	37 25	Fuel Cells Ametek, Inc. files for patents on thin-				have decided to proceed with their			
ICC opts to deregulate inland water- ways	Jan	3	40	film semiconductor materials that can				90-95 mw. coal-gasification project. R Texaco and SCE go with coal-fired	July	25	24
ICC sets ceiling on rail rates for recy- clables	Apr	25	18	be used to make low-cost photovoltaic solar cells	Nov	7	47	plant Aug 8-19	Aug	8	32
National Assn. of Recycling Industries challenging ICC freight rates for	repr	2.0		Low-cost catalysts called "face-to-face" porphyrins for fuel cells could widen				gasification	Oct	31	13
recyclable materials	June	6	36	their uses N TVA to test use of gas from coal in fuel	Sept	5	76	Colorado site for coal gasification			
Shippers brace for big freight-rate in- creases N	Aug	1	20	cell pilot plant N	Dec	19	70	project after plans for project in Farmington, N.M. are dropped	Feb	28	23
Fuel				Fukami, Koichi president of Sumitomo Chemical America: He'll push for pro-				Gasoline			
American Hoechst awaits DOE decision on boilers for Texas HDPE plant N	Dec	12	18	fits from pesticide products Fumaric Acid-Prices N Mar 28-28,	May	9	49	Additives Atlantic Richfield gets EPA go-ahead			
Beech offers fuel system for operating				N May 23-24 N Fungicides—Du Pont fungicide Benlate	Aug	8	23	for new gasoline octane booster, Arconol	Feb	14	23
autos on liquefied natural gas N Brazil allows sharp fuel-price increases.N	Nov	5	34 51	cleared for use if workers wear protec-	C	10	14	DOE asks EPA to ease gasoline additive			23
CPI feat: scrimping on fuel oil	June	20	20	tive equipment N	Sept	12	14	rules including lifting of ban on	Feb		22
DOE lining up projects to test feasibility of indirect liquefaction for motor				Furfural				MMT: threatened suits make refiners	June	6	21
fuel	Dec	5	18	Biomass to ethanol without fermenta- tion: experimental technology for				wary of MMT	June	13	21
Energy-saving ideas need industrial try-				turning corn husks, rice hulls and pine trees into ethanol	Nov	28	38	Suntech's MTBE technology N	Mar	21	38
FAA is looking for antimisting agents	Mar	21	36	Non-fermentation route to ethanol from				MTBE: EPA denies Petro-Tex Chemi- cal application, but keeps open mind			
for jet fuels N Antimisting agent for jet fuels passes	Mar	21	38	biomass is proposed N	Oct	31	40	on MTBE	Mar	7	17 18
early tests N	June	20	56	•				MTBE: New capacity under construc- tion N	May	30	55
Fuels and feedstocks outlook: more plentiful fuels, at loftier prices (chart).	Sept	26	16	G				-Correction	June		23
MIT study says water needs do not limit potential for synthetic fuel N	Jan	17	27	Gadolinium-Refrigerant in magnetic heat				new gasoline additives for use when			
-Letter	Mar	28	5	Galbusera, Walter, head of Unitaria	Mar	28	34	lead is phased down (chart) Suntech, Inc. granted EPA waiver		11	43
meeting: Refiners seek supply-demand answers		14	52	Lavoratoria Italiana's chemical division: He's a 'neo-Marxist' who believes in				from 1977 Clean Air Act amend- ments to manufacture new antiknock			
Other views: DOE's fuel rules-costly,	1401	1-9	02	profits	Feb	21	58	fuel additive N Allocations begun	Aug		10
wasteful, complex. Stanley B. Farb- stein	Feb	7	5	Gas				Aromatics: chemicals and gasoline com-			-
Petrochemicals prosper, fuel outlook brightens, Royal Dutch/Shell Group				Air Products industrial gas plant in Chandler, Ariz	Feb	21	26	Brazil allows sharp fuel price increases N	Apr		31 51
and Northern Natural Gas executives tell N.Y. financial analysts		3	21	Air Products industrial ges plant in Milwaukee			28	DOE lining up projects to test feesibility of indirect liquefaction for motor			
Shale oil as a jet-fuel source studied	Sept		22	Air Products specialty gases plant at				fuel N	Dec	5	18
Solid waste as fuel: Riley's experiences outlined at ASME's Industrial Power				Jacksonville, Fla	Oct	31	23 20	DOE plans to decontrol natural gaso-	Apr	18	14
Conference		31	46	Coyne seeks a slot in gas-plant con- struction	July	25	35	SDB see Ethylene Dibromide Fermentation technology and process			
Synthetics will have larger cost ad- vantage as oil tabs rise (charts)		28	19	struction	Nov		47	engineering must be significantly im- proved if ethanol made from biomass			
Proposed \$2-billion synfuels subsidy clears House committee N				FERC decontrols 'high-cost' gas source:	3	14	18	is to be used extensively as a motor fuel says consultant Prebluda		18	32
Cresis riouse committee N	May	16	18		1400	14	10	tuer says consultant Francus	Apr	10	J.E

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Gas woes fuel car pool drive	July	18	36	Capital spending (table)	Mar	21	31	Concentric plastic pipes find use in U.K.		1	27
BATF receives applications for ex- perimental plant N	May	9	23	the weakening of the U.S. dollar than				for nuclear waste water N Dow Corning to receive \$40.7-million	Aug	•	21
Brazil chemist Pimental describes his	ividy			about revaluation of the Deutsche mark	Oct	3	31	subsidy for South Wales silicone products plant N	Sept	19	17
country's gasohol program at ACS meeting		19	44 24	Chemical workers get moderate pay boost N	Apr	4	44	Foreign forecast: On balance, 1979 could be a pretty good year-report			
DOE considers entitlements	Sept	3	43	Coal-gasification pilot plant to use nuclear heat N	Dec	19	70	Government change may benefit CPI. N	Jan Apr	24	23
Amoco challenges use of entitlements to spur gasohol projects N	Nov	28	18	Coal-gasification process will be tested in West Germany	Mar	7	35	ICI employees holding out for a hefty pay increase N	Aug	8	25
Does 'gasohol' really improve fuel economy? N	May	2	53	Correction	Mar	14 21	37 37	ICI employees reject union leaders'			29
New federal and state financial incen- tives may get the fledgling gasohol				Deutsche Shell to modernize hydro-		**		advice, accept company offer N ICI moves to improve productivity, will	Aug		
industry in gear	Oct	31	45	refinery	Apr	18	21	cut staff	May	9	40
New technique for separating water mixtures (flowsheets)	June	6	42	Fibermakers still in red	Dec	5	24	European CPI is bright this year Labor-law reforms could trigger strife N		21 18	46 38
Plant feasibility study is underway for Wisconsin co-ops	Sept	19	43	could be a pretty good year-report (charts & table)	Jan	24	23	North Sea: U.K. looks for toxic chemi- cals in North Sea	Feb		44
Producers ready to start their engines . Resolved: to become a Positive	May		28	German CPI regains some vigor. Silke McQueen (charts & tables)	June	20	47	Penny postage started stamp adhesives on their appointed rounds: BOP will			**
Thinker' on gasohol-Viewpiont Senate approves plan to set up office	Oct	24	5	Hoechst pollutes Main River with state knowlege	1		26	commemorate Rowland Hill who in-			
to oversee gasohol program N Synthetic fuels see Fuel-Synthetic	Oct	31	14	K-79 in west Germany: optimism for				troduced first adhesive-backed stamp for prepaid mail service		25	55
fuel				plastics			22	Polyolefin markets. Price commission action worries U.K.	June	13	38
Grace plans gasification switch to make gasoline at Henderson, Ky	Sept		22	European CPI is bright this year Polyolefin markets	. June		46 38	companies	Mar	28	37
Lead-in-gas: EPA defers lead-in-gasoline	Nov		9	Reactor know-how to be traded with Japanese	1	21	37	to offset naphtha costs N R.V. Chemicals plans inorganic sulfur	Jan	17	32
limit one year N Lead-in-gasoline: EPA may accept 0.8	Sept	19	18	Single-cell protein process: Linde says using oxygen instead of air raises	5			compounds plant	Jan	24	17
gram per gallon as limit for lead con- tent of gasoline N	Sept	12	14	single-cell protein yield	. Aug		28 28	Scotland's key ges-separation plant construction still in doubt	July	4	48
Lead phase-down discussed at AIChE	Apr		42	Unions are seeking to reduce working	3	17	20	Searle makes flu virus antigens in bacteria	May	30	20
Methanol see Methanol	-chi		76	hours: International Federation of Chemical, Energy and General Workers	5		-	Shell Chemical invokes force majeure on U.K. polyethylene N	June	27	29
Mobil proposes gasoline from natural gas project for New Zealand N	July	11	25	Unions Levinson backs drive N Waste disposal: Europe gets a grip or	Apr	11	54	Shell Chemical olefins plant contract. R Stablex Corp.'s synthetic rock: British		24	17
More details N Mobil shows how ZSM-5 family of	July	18	42	wastes Wittig, George wins Nobel Prize is	 Aug 	8	44	process to stabilize toxic wastes will get tryout in Michigan	F-6	7	44
zeolite catalysts make gasoline from big molecules N	Oct	10	42	chemistry		24	19	Textile makers face long-term woes N	Feb Nov	28	41
Mobil Oil's methanol-to-gasoline process to get \$28 million from U.S., West	-			Gian				Thatcher, Mararet: She's having an impact on CPI. Tim Keeley (charts)	Oct	24	32
Germany N	Nov	21	14	Auto glass: Glass-repair technique—two part epoxy formulation and pressure	8			Truck strike hurting chemical makers Jan 24-15	Jan	31	31
New Zealand picks Mobil process to make gasoline from gas-derived meth-				system	. Apr	4	45	Truck strike ends, but problems linger N	Feb	21	48
anol N Naval Weapons Center process converts		28	34	Starr (tables) Feb 28-40, Apr 25-34 May 30-46, Aug 29-39	. Nov	21	36	Union movement shows its strength . N Waste disposal: Europe gets a grip on	Aug	8	25
trash to gasoline	Mar	21	36	GAF to build glass mat production uni at Chester, S.C	t		17	wastes	Aug	8	44
move	Apr	4	24	Metallic-glass use in transformer wil	1			Greece			
Gels-Waste fibers could be source water- gels N	Feb	14	36	save research money	-		50	Ethylene-based petrochemical complex near Missolonghi N	June	27	.36
Generators				mics gain on glass	. May	9	30	Greece ventures into petrochemicals and EEC	July	18	39
Congeneration: Celanese's Pampa, Tex. plant switches from natural gas, but				unit at Mount Zion, III	R Mar	28	25	Gum-Warner-Lambert execs face criminal	July	10	30
burning coal is not yet economic	Nov	21	48	plex near Evansville, Ind	V Jan	31	13	charges in connection with a 1976 ex- plosion at Chicle Division bubble-gum			
Cogeneration: Dow and EPA argue over controls at Midland plant	Oct	31	48	Safety-glazing market may open, in CPSC weathering tests for plastics are	e			plant in Long Island City, N.Y Gutheil, Robert W., president of Borden	July	18	26
Congeneration: Dow Corning gets ready for SECO project that will burn				eliminated	. Nov	21	19	Inc.'s Chemical Div.: He's strong on selling but only if done 'right'	July	25	59
Cogeneration: Four new cogeneration		10		storers are turning to a host of chem- cal specialties	-	19	82	Gypsum			
ideas may get DOE funds N Cogeneration: Trans Energy Systems	Apr	11	41		. 500		OL.	American Cyanamid's gypsum wasta			
French-U.S. joint venture will market congeneration, district heating sys-				Glass Fibers Auto production cuts will have mixe	d			from TIO ₂ processing will be bought by Lemco, Inc N	Aug	29	43
tems N	Sep	t 26	32	impact on many chemical suppliers Japanese study links glass-fiber dust an		22	18	Davy Powergas to market lime-based flue-gas desulfurization system N	Apr	25	48
Cogeneration project in Green Bay, Wis. hits snags	. Aug	9 15	19	lung disease	. Jan	3	18				
GE test of superconducting generator component is called successful N	Nov	v 14	51	workers exposed to glass fibers National Boat Show: High-strengt	. Jan	3	18	н			
Hydrogen generators based on meth- anol	Oct	31	42	fibers find niche in boats	. Jan	24	15	Hair Care-Cosmo Expo session on hair-			
MHD: Control Data to market Soviet MHD technology in U.S N	1	c 19		NCI says link between glass fiber an lung disease is erroneous	N Jun	e 13	14	care items	May	2	50
MHD: Russians begin work on power	r	9 22		Owens-Corning Fiberglas completes glas fiber unit in Amarillo, Tex. N Ja	5-			Hair Dyes Congressional unit looks at hair dyes	Aug	1	18
plant at Ryazan	1			17-36	R Apr	18	21	Ingredient 4-nitro-o-phenylanediamine gets negative bioassay test N	Jan	24	38
for MHD	1	b 14	35	tics bid for storage tank sales	. Sep	t 19	52	Halogens-Atlantic Research's LARC pro-	Jun	24	30
cooperative work in magnetohydro dynamics	i Dec	c 12	50	Waterslides. Glazing—Safety-glazing market may ope	n	22	42	cess removes halogens from waste- water	May	2	53
Genetic Engineering				if CPSC weathering tests for plastic are eliminated	. No	v 21	19	Poulenc Inc.: He's French firm's Ameri-			
Life forms: Federal court rules again				Gloves-NIOSH finds benzene glove defective		31	20	can connection	Jan	3	45
that lab-created life forms can be patented	I Ap	r 11	18	Glutamic Acid—IBM develops materi that expands under ultraviolet light.	al N Jan	10	33	tacts	Feb	21	38
Life-form patent case to be heard by Supreme Court	. No	w 7	7 20		3000		33	Health			
Nobelist Baltimore at Midland meeting the promise of genetic engineering	. Oc	t 31	29	Glycerine Prices N Mar 7-32	N Jun	e 20	32	DOE will study impact of diesel emissions on health N	May	2	53
-Correction	. No	w 7		Shell to stop manufacture	N Oct	31	13	Du Pont's Kane seeks disease preven- tion	Dec	19	21
Genetic Engineering. DNA see DNA			-	Glycol Ethers-Prices		7	32	tion			
Geothermal				Gold-Chilean deposit	R Apr		26	survey (table)	May	30	59
California controversy imperils research at two federally-funded labs	. De	ic 19	73	Gopherweed—Synthetic oil: tapping the gopherweed	. Dec	12	53	chemical industry contracts	Apr	18	33
DOE moves ahead on geothermal pro- ects	N Ma	ny 23	3 35	for OCAW presidency	. Au		24	U.S. Criminal Code revision contains new felony offense called "endanger-	_		-
Gruy Federal will drill first deep ged thermal well in the East)-		7 38	He's set for tough challenges in 1980s.	. Dec	19	96	ment"		12	26
Magma Power to build geothermal plan near Niland, Cal	31			Great Britain				metals	June	27	36
	. 341		,	American Cyanemid boosts capaci for hydrosulfurization catalysts	in			probes see Cancer Health Research Group—Calls for soudy			
Germany ACHEMA 1979: Less browsing, mor	0			BP to buy ICI's unsaturated polyest	N Sep	ot 26	32	of DBCP contamination	June	27	25
specific interest in investment. Silk McQueen		dv .	4 42	resin plant at Wilton	N Jur	ne 6	30 46	Heat			
Some musings on the meaning of ACHEMA 79-Viewpoint.	of.			Capital spending (table)	Ma	r 21	31	GE says long-distance chemical heat pipes may transport energy N	Jan	31	36
BASE warehouse fire destroys supplied	35		1 5	Chemical output: Low growth ra bothers U.K. chemical makers	N Ma		40	Heat-storage pipes use the phase-change properties of calcium chloride hexahy-			
of pesticides and plastics	re Ju	ine 2	7 36	CPI hopes for reform under Thatcher	Ma	y 16	24	drate to store energy N	May	9	29

Thermal energy "storage battery" sys-				DNA-derived drugs: Hormones and vaccines may reach the market in two			
tems will out home heating costs in		16	18	or three years Ju	ne 27	32	
Heat Exchangers—Chem Show exhibitors.	Nov	14	69	Research teams use recombinant DNA to make growth hormone Jul	. 10	25	Ice Skati
Heating-Trans Energy Systems French- U.S. joint venture will market cogenera-				Horticulture—Jojoba plant may become a	y 18	25	Idol, Ja
tion, district heating systems N	Sept	26	32	source of cosmetics, pharmaceuticals,			search
Heavy Water—Argentina's heavy-water plant construction gets three bidders. N	Feb	21	37	lubricants, surfactants Fe -Letter		31	made : for him
Heliotropin-Haarmann & Reimer sym-				Huck, John Lloyd, president and chief	, ,,		Illinois
osium points to new methods to make	Oct	2	46	operating officer of Merck & Co.: He	. 10	50	Institu
flavors and fragrances	Oct	3	40	fled the lab at his first opportunity Oc	t 10	56	icals by
Cities paraice and biasident or chamicals				Hungary			Imports
group: He finds the living easy and the		20	68	Patent protests aimed at Hungarian	a · 1	10	ASP se
job a challenge	May	30	90	PVC powder plant N Ap		18 54	Ammo
Chemical Co.: For his 30th anniversary				Potential for plastics exports grows N Au		32	Asian
he got top spot	Oct	31	52	Hydraulic Fluids—Olin develops cluster- like silicate esters that withstand water . Ma	r 7	37	for d
dent and chief executive officer at				like sincate esters that withstand water . Me	,	37	Balanc
Allied	Apr	4	25	Hydrazine			in 1
Allied spends a year finding a president . Allied charts a new course: Edward	Apr	11	39	Prices N Au Worldwide markets; Olin's new hydra-	ig 29	33	Chen
Hennessy sets quick pace in search of				zine plant in Lake Charles, La., triples			wor Li
higher profits	Nov	7	42	the company's capacity (chart) Se	pt 12	34	Benzer
				Hydrazine Hydrate-Prices N Au	ig 22	32	(table
Harbicides				Hydrocarbons			Brazil rules
Agent Orange see 2,4,5-T Brazil's agricultural chemicals makers				Aerosol propellents see Aerosols			Canadi
benefit from farm output incentives	Oct	31	31	Calvin at ACS meeting reports of rare trees that can directly yield fuel oil			Annu
California county votes to limit phenoxy			**	and naphtha for chemical feedstocks Se	pt 19	44	Canad
herbicides	June	13	18	Cobalt-polymer catalyst provides low-	45	22	(char
garden weed killers containing Silvex R	May	16	28	cost route to steroids, hydrocarbons .N Ju Deutsche Shell to modernize hydrocar-	ne 13	23	Carter
HEW compiling list of workers exposed				bon solvent plant at Hamburg refinery R A	or 18	21	Carter
to dioxin N Eli Lilly's Oryzalin: ICWU seeks ban	Aug	15	14 28	Du Pont and Shell reach agreement on	or 18	13	chem
Michigan charges that a state-licensed				hydrocarbon purchases N April Fill-in for crude: light hydrocarbons	or 18	13	Doxyo
hauler of toxic wastes illegally dumped				(charts) No	ov 14	20	tice I Dump
Pesticides into an open pit in rural Livingston County	Mar	28	23	Israelis test lasers for extracting hydro-		- 00	Albe
Pesticides flourish on farm prosperity:	,,,,,,,			carbons from shale deposits N Ja Mexico: oil and gas reserves N Ja	n 24		Por
National Agricultural Chemicals Assn.		40	00	Oil from algae: Pennsylvania State Univ.			fro
meeting Sweden: Aerial spraying of defoliants	Oct	10	35	researcher Engel develops algae-to-oil			Pro
becomes a campaign issue N	Sept	5	69		ly 18		U.S
2,4,5-T				Synthetic oil: tapping the gopherweed Do Synthetics will have larger cost advan-	ec 12	53	Sou
Agent Orange: Class action suits filed on behalf of Vietnam veterans and				tage as oil tabs rise (charts)	ar 28	19	m
others Jan 17-21, R Feb 14-17	Feb	28	18	Velsicol to drop hydrocarbon resins			Cana
GAO backs study of veterans exposed		40	00	Hydrochloric Acid-Prices N Apr 4-29,	ov 21	13	dui
to Agent Orange	Apr	18	20	N Oct 3-37 N D	e 13	69	East-V
vets on Agent Orange effects	July	4	18	Hydrodesulfurization—Catalysts report.			Chin
Study of veterans delayed GAO finds fault with Vietnam	Sept	26	20	Donald P. Burke (charts & tables) Part I: Petroleum catalysts — HDS			Ch U.S.
spraying	Dec	5	41	catalysts M	nr 28	51	U.S.
Agent Orange shows up in fat-biopsy	200			Hydrofluoric Acid-Prices N Oct 17-54 N Di	ec 19	69	U.S
studies	Dec	19	21	Hydrogasification see Gasification			EEC
Dow makes its case for 2,4,5-T at	Jan	3	34	Hydrogen			new
American Farm Bureau Conference	June	13	22	Air Products and Chemicals, Inc.,			Fibers
Dow representative denies a charge				Laporte, Tex., hydrogen plant R M. Air Products to build a liquid hydrogen	By 8	21	Fill-in
that the company engaged in "Cor- porate espionage" against a Vietnam				plant in Sarnia, Ont N A	or 11	17	(cha
veterans' group to obtain a copy of a				Catalysts and Chemicals Europe process			'Free View
medical questionnaire related to al-				to make hydrogen by steam reforming methanol N	n 31	40	GAT
leged exposure to Agent Orange Herbicide	Aug	29	23	DOE thinks power at dam sites can			Great
Dow registers Garlon 3-A herbicide				make hydrogen economically N Fe	b 28	48	havi
said to be partial replacement for	hone	6	14	Hollow-fiber device separates hydrogen from waste-gas streams N	ov 21	46	(cha
2,4,5-T N EPA orders emergency suspension of	June		1-4	Hydrogen merchants shake off auto			Italia
2,4,5-T	Mar	7	21	slump; shutdown of some old on-site			Rus
Judge lets EPA ban stand EPA opens hearings on 2,4,5-T	Mar	14	19	generators is boosting merchant mar- ket (table)	nt 31	42	Italy*
suspension	Apr	25	25	Lockheed wants liquid-hydrogen-fueled			Japan
Dow asks EPA to halt hearings N	May		14	airline N Se	pt 18	17	dire
Hooker dumpsites see Waste Disposal National Institute of Environmental				Oil from algae: Pennsylvania State Univ. researcher Engel develops algae-to-oil			App
Health and Safety animal experi-				process using hydrogen Ju	ly 18	43	baci
ments on dioxin look for birth				Saudi Arabia: Shell awards contract to			CPI LPG:
defects N Hexachtorocytopentadiene (C ₅₆)—Hooker	Aug	15	14	Uhde GmbH	19 1	18	to L
dumpsites see Waste Disposal				lectors to produce hydrogen, CO N A	ag 15	38	Ment
Hexachlorophene-Morhange talcum pow-				Union Carbide Linde Division's Ashta-			thre Naph
der case (1972): French criminal court begins to hear testimony	Oct	31	22	bled R M	ar 21	26	mer
Hexamethylenetetramine-Prices N	Oct	31	39	Hydrogen Chloride—Non-electrolytic chlo-			napi
				rine process uses heat from coal com-	b 7	200	Natur
High-Energy Fuel	,			bustion N Fe	RD /	36	pan
Ashland process converts shale oil into				Hydrogen Peroxide			from
jet fuel	Jun	13	23	Markets: major expansions highlight bullish forecasts (table)	ec 12	2 33	Oil-in maj
for jet fuels N	Mar	21	38	Prices N A			Oil
Antimisting agent for jet fuels passes				Shell to stop manufacture N O	et 31		tari
early tests N Lockheed wents liquid-hydrogen-fueled	Jun	20	56	Hydrogenation			Petro
airline N	Sep	19	17	Catalysts report Donald P Burke			imp
Shale oil as a jet-fuel source studied	Sep	5	22	(charts & tables) Part II: Chemicals-			Petro
Highways				Hydrogenation A. Scientific Design will evaluate a com-	pr 4	52	Fed Sri
Plasticized sulfur will get a road test in				mercial hydropyrolysis plant N D	ec E	66	inve
Texas N	Feb	7	36	Hydrolysis-Lummus process makes nia-			Swed
Sulfur-based road-paving material, dub- bed Sulphlex, could replace asphalt	Aug	15	18	cin and niacinamide from a single feed- stock using the same equipment (flow-			Texti
Hogg, Christopher A., chief executive	red			sheet)	ug 22	2 38	TiO ₂
officer and chairman elect of Courtaulds				Hydropyrolysis—Scientific Design will	-		Toxic
Ltd.: Ex-paratrooper jumps into top spot	Oct	24	52	evaluate a commercial hydropyrolysis plantN D	ac i	5 66	harr
	561	-4		Hydroquinone di (beta-hydroxyethyl)	06 1	. 00	Trade
Hormones				ether-Moca in doubt; regulations may			U.S.
				and the dead of the second second second			
Chicago jury awards cancer victim \$800,000 in verdict against Schering-				force processors to change cast-urethane	ine 4	3 40	pro
\$800,000 in verdict against Schering- Plough	Sep	t 5	19	force processors to change cast-urethane specialties	ine 1	3 48	
\$800,000 in verdict against Schering-		t 5	19	force processors to change cast-urethane specialties		3 48	pro —Li

ce Skating-Polyethylene skating rinks dol, James D., director of venture research for Ashland Chemical Co.: He	Aug	22	42
search for Ashland Chemical Co.: He made some dramatic changes pay off for him	Feb	28	61
linois Institue of Technology Research Institute—Computer system ranks chem-		20	01
icals by potential health hazard N	Mar	7	35
mports ASP see Tariffs			
Ammonia: Anhydrous ammonia imports			
surge, while exports drop N Asian countries plan a common market	July	11	23
for drugs N Balance of trade	Sept	19	39
Chemical trade surplus climbed 6% in 1978	Feb	7	19
Chemicals strike a better balance in world trade (tables)	Feb	21	31
-Letter	Mar	28	5
(table)	Aug	1	16
Brazil devalues currency, changes trade rules N	Dec	19	26
rules			
mixed visions of 1980s	June	20	25
(charts)	Oct	17	20
Carter plan would consolidate trade activities into Dept. of Commerce	July	25	19
Carter seeks backing for new trade plan;			
chemicals stay aloof (charts)	Feb	7	15
tice Dept. in dispute with Pfizer N Dumping	Feb	14	23
Alberta Gas will appeal ruling on Du			
Pont allegations N Ammonia producers protest imports	Aug		25
from Russia	July	18	24
U.S. ammonia firms carry complaints			
to ITC	Sept	5	17
market	Oct	10	18 60
European soda makers complain about			-
dumping N East-West trade	Mar	7	33
China: better trade relations with China ahead?	Oct	31	17
U.S., China initial trade accord	May	31 23	17
China shead?			
development N EEC and developing nations draw up	July	18	18
new trade and aid agreement N Fibers: Common Market hits U.S. fiber	July	18	38
imports	Nov	21	18
imports	Nov	14	20
(charts)	Apr		5
GATT see Tariffs	Apr	20	9
Great Britain's Margaret Thatcher: She's having an impact on CPI. Tim Keeley			
(charts)	Oct	24	32
(charts)	Nov	21	17
Russia N Italy's chemical trade deficit has dou-	Nov	7	48
bled	Sep	12	41
Japanese petrochemical makers seek direct imports of naphtha N	Feb	7	24
Approval for naphtha imports N Japan's chemical industry makes come-	Feb		48
back: tighter belts fatten Japanese CPI's profits (charts & tables)			
LPG: Cracker feed flexibility: a boon	Sep	t 26	54
to LPG imports?	Nov	21	19
threaten U.S. markets	Nov	14	49
ments it gets for using imported			
naphtha	Nov	7	14
panies planning to import natural gas			
from Mexico Will face competition	A	1	9
Oil-import breaks sought by chemical	Aug		
majorsOil products: DOE opposes plan for	Nov	7	24
Petroleum: CMA is seeking plan to	Nov	21	14
assure CPI feeds despite limits on oil	Oct	31	14
imports			
Feds to buy crude	Jun		20
Sweden bans cadmium imports N	May		39 69
Textile trade discussions between U.S. and China N	Jan		23
TiO ₂ import ruling appeal remote	Dec		21
TiO ₂ import ruling appeal remote Toxic substances laws: push is on to harmonize U.S. and European toxic-			
substances regulations	Mai	7	39
U.S. producers need a 'measure' of			
protection—Viewpoint	May		6
Worldwide approach to regulations needed to prevent severe technical and			
and the process of the control of the			

				CHEMICAL WEEK INDEX SOLORY DE		,					
economic disruptions in international chemical markets.	Apr	25	46	-Letter	Sept	19	5	Cotton pesticides: EPA to grant con- ditional approval to three new			
	Apr	20	40	questioned	July	11	20	insecticides N	Jan	24	10
Incineration AIChE meeting message: new rules for				Occidental's takeover bid for Mead: How Mead dodged Oxy's 'bearbug'	Mar	14	33	Coumaphos gets negative bioassay test	Jan :	24	38
hazardous wastes: burn them, bury them, or change them	Aug	29	44	Oil-firm acquisition bill passes com- mittee	Nov	28	23	DBCP: Amvac Chemical cited for ailure to report use	Feb	7	18
Fluidized beds may be used to burn				Rhone-Poulenc eyes a U.S. acquisi-			19	Amvac told to cut emissions by			-
studge	Jan		36	Acquisition bid for Anken Industries.	Apr	9	18	DBCP: California orders Oxy to halt	May	16	26
Rollins will not incinerate pesticide	July	11	20	Rhone-Poulenc sues to block opposing bid for Polychrome Corp. from				pollution at Lathrop, Calif., fertilizer and pesticide plant	Apr	4	23
wastes from Velsicol Memphis, Tenn.	halas	10	27	Dainippon Ink & Chemicals	Mar	7	19	California plans to seek civil penalties as disclosure of memos implicate			
Solid waste as fuel: Riley's experiences	July	18	21	Rhor:e-Poulenc withdraws offer for Polychrome N	Mar	14	13	Oxy in water-pollution coverup	June		23
outlined at ASME's Industrial Power Conference	Oct	31	46	SmithKline set for big entry to eye- care field with acquisition of Allergan				DBCP: EPA suspends use R Bans most remaining uses N	July	7	24 14
Texas approves burn of Velsicol's			18	Pharmaceuticals	Dec	19	22	DBCP: HRG calls for study of DBCP	June	27	25
wastes	Apr	18	5	Laboratories	Nov	7	18	Contamination			
Waste disposal by burning at sea (table).	Apr	11	44	Unilever acquisitions strengthen spe- cialty hand	Oct	17	25	kills two, injures 101		6	21
India				Uniroyal tire operations in Europe sold to Continental Gummi Werke				Memphis, Tenn	July	11	21
Ammonia-urea capacity buildup N CPI is stalled by political crisis (tables) .	May Sept		28 36	A.G	Aug	1	17	toxic pesticide aldicarb found in drinking wells in Long Island N	Sept	12	14
Naphtha supplies piling up N Sulfur shortage N	Dec	12	56 51	highs	July	11	34	EPA steps up efforts to protect pesti-	oupt		
Indonesia	1 00	-	01	SRI sees sharp drop in world chemical demand	Mar	28	24	cide workers: plans closure and container standardization	Aug	15	22
Asian countries plan a common market				Society of Chemical Industry symposium deals with "economic and political				Ethylene dibromide see Ethylene Dibromide			
for drugs N California LNG terminal at Point Con-	Sept	19	39	factors affecting the international		40		Ferriamicide to control fire ants: EPA			
ception: Final approval seen	July	18	25	chemical industry"	Oct	10	19	reaffirms emergency approval for MissR	Feb	7	22
Five-year economic growth plan will emphasize mineral output growth. N	Jan	17	32	usual?		3	23	Safety dispute flares up on ferriami- cide	Mar	7	21
Oil: Higher prices lead to more oil from Indonesia N	Oct	31	30	Infrared				EPA suggests substitutes N	May	9	14
PVC capacity N	Apr		54	Infrared scanning detects hot spots in chemical plants	Mar	28	35	Fire ants: American Cyanamid's pesti- cide tests authorized by EPA R	Nov	14	42
Seeks partners in petrochemicals, finds urea plant financing	July		36	Scanner that can spot oil spills in the dark or in foggy weather being tested N		25	46	Fire ants fight cotton pests, researchers say	July	11	22
Urea plant to be backed by Japanese. N	Apr	18	26		0017			FDA preparing report on chemical residues' effects in food N	Feb		18
Industry Developments Acquisitions and mergers: for newsletter				Ink Chemical Week 300—report. Homer G.				GAO scores FDA, EPA on controls of	-		
and roundup items see under individual				Starr (tables) Feb 28-39 Apr 25-33	Nov	21	42	pesticides rise by foreign countries Heptachlor and chlordane suit against	July	11	18
company names in Company Index Australian CPI buildup fosters fears of				May 30-48, Aug 29-36 Erasable ink will be offered in Gillette's	1400		-	Velsicol dismissed	May	2	21
Overcapacity	Feb	28	52	Eraser Mate Pen	Jan	31	43	Indian tree extract repels a wide range			
government slows development (table)	July	25	37	tions, economics change mix	Feb	28	58	of insect pests from crops	Aug	29	50
Great Britain's Margaret Thatcher: She's having an impact on CPI. Tim Keeley				Inland Waterways				elers board; Travelers defended Allied in Kepone incident	Aug	22	20
(charts)	Oct	24	32	Chemical shippers have big stake in reconstruction of Alton, III., lock:				Kepone plant owners ordered to pay			
(tables)	Sept		36	deteriorating waterways may slow growth of chemical barge traffic	Nov	14	86	\$16,500	Feb	14	14
Iranian crisis: what toll in trade?	Nov		17	ICC opts to deregulate inland water-				hauler of toxic wastes illegally dumped pesticides into an open pit			
plans	Aug	22	35	ways N Lock and Dam 26 clears major legal	Jan	3	40	in rural Livingston County	Mar	28	23
back: tighter belts fatten Japanese	Sept	26	54	hurdleN Maritime study seeks upgrading inland	Oct	31	39	MortonNorwich to buy Shell's No-Pest strip insecticide business N	Mar	7	13
CPI's profits (charts & tables) Merger activity down for chemicals and				ports		25	19	NCI bioassay shows toxaphene is carcinogenic N	Mar	14	37
coatings—W.T. Grimm & Co. report N Merger activity up in first half of 1979	Feb	21	17	Midwest floods snarl inland waterway chemical traffic	Apr	25	27	Office of Technology Assessment has	IVIGI	14	31
for chemicals and coatings-W.T.	testes	10	17	Tennessee-Tombigbee waterway project proceeds despite challenges (diagram &				endorsed Integrated Pest Management (IPM) techniques as a replacement			
Grimm report N Mergers and acquisitions	July	10	17	map)	Apr	18	35	for pesticides	Nov	7	25
Anti-bigness push: Kennedy's bill would limit size of all mergers, re-				Winter snarls: How CPI plans to steer clear of winter snarls	Jan	17	24	Management Consultants for study			
shape antitrust policy -Letter (cover correction)	May	16	38	Inorganic Chemicals				of generic pesticide standard N Other views: Jellinek chides pesticide	Aug	22	14
Corco: Puerto Rican government will	Aug		•	Oil and chemicals. Era of peaceful co- existence? — report. Meyer Lurie				makers on poor citizenship Jellinek: Pesticide makers win a	Nov	21	5
hold talks with CRC concerning the \$50 million Corco allegedly owes the				(tables)	Oct	17	70	Pyrrhic victory	Nov	28	5
island's government	Jan	10	21	Oil companies' share of chemical pro- duction capacities	Oct	17	74	Pesticides flourish on farm prosperity— National Agricultural Chemicals Assn.			
Seaoil	Jan	24	-14	Prices N U.S. aid package for Egypt includes	Sept	26	46	Pyzethrin manufacturers that use	Oct	10	35
American Seaoil agrees to \$7 million deal for acquiring Corco N	Mar	7	13	inorganic chemicals complex at Lake				chlorofluorocarbon propellants may	May	30	22
Corco's common stock trading R Corco emerging from Chapter XI on	June	20	28	Quarun N Insect Repellents—Market revived by out-		15	29	be granted relief R Pyrethrins: shortages of natural and	iviay	30	44
its own?	July	4	13	door recreation interest	July	4	34	synthetic pyrethrin insecticides are easing (chart)	Jan	17	42
million	Oct	17	26	Insecticides Brazil's agricultural chemicals makers				-Correction	Jan	24	44
Corco settles claims, has takeover offers	Dec	5	22	benefit from farm output incentives		31	31	cal industry ranks sixth	Dec	5	42
Du Pont has buyers for 80% of dyes	Dan	12	21	CSMA meeting topic	May	23	34	Rollins will not incinerate pesticide waste from Velsicol Memphis, Tenn.			
business	Dec	12	21	garden weed killers containing Silvex R DDT see DDT	May	16	28	plant	July	18	27
Polyolefins and Consolidated Thermo- plastics	June	e 20	22	Federal Insecticide, Fungicide and Ro-				settled out of court R	Jan	31	21
Esmark considers acquisition of Re- liance Universal	Sept		19	denticide Act (FIFRA) Supreme Court dismisses Mobay's				UN calls for research in pest-control methods N	May	30	27
Exxon's plan to acquire Reliance			-	appeal on 1978 FIFRA amend- ments N		17	14	U.S. House of Representatives votes to give Congress veto power over			
Electric hits a snag in court N Exxon buys Reliance without FTC's	Aug	8	14	Monsanto sues over pesticide amend-				pesticide regulations R	Dec	5	43
blessing	Oct	3	19	ment House Committee votes limits on EPA	Apr	11	22	Velsicol's EPN pesticide plant at Bayport, Tex. down after explosion			
merger	May	2	19	authority	May	16	27	and fire	Jan	17	22
Foremost-McKesson receives acquisi- tion proposal from a private invest-				tional? Supreme Court may have to				in Japan and in Australia N	July	25	45
ment group now forming, which would include members of Foremost-				decide N EPA's Jellinek blasts ag chemical	Oct	24	14	Shell to build synthetic pyrethroid plant in Mobile, Ala	Aug	15	22
McKesson management	Oct	24	21	industry for filing FIFRA suits N EPA cannot appeal constitutionality	Nov	7	14	Stauffer Chemical facility to manufac- ture insecticide intermediate ethyl			
Gulf + Western Industries to increase stake in Sherwin-Williams R	Feb	7	28	directly to Supreme Court but must				chlorsanthemate at its Edison, N.J.	94-	- 00	20
G + W says stock purchases are strictly for investment	Mar	21	45	present the issue to N.Y.C. appeals court		12	28	plant	Nov	28	28
FTC probes G + W's stake in Sherwin-		29	49	Pesticides Biorational pesticides: EPA speeding				Institute of Food Technologists—Francis discusses fabricated foods at seminar	Apr	18	39
Williams	Mug	4.0	40	up program for approval N	July	4	39	Instrument Society of America-New instruments debut at Chicago show			47
Johns-Manville wants to buy Ashland's	-	-					27	matruments deput at Unicago snow	UCI	31	41
oil and natural gas properties Mapco: \$27.2 million to buy Chem-	Jan	10	21	Chlorobenzilate: EPA orders ban R Coast Guard and EPA debate best way		23	47				
oil and natural gas properties Mapco: \$27.2 million to buy Chem-	Jan	10	21	Coast Guard and EPA debate best way to dispose of sea water contaminated		28					
oil and natural gas properties Mapco: \$27.2 million to buy Chem- Nuclear NL Industries' plant sales: Four plants sold to Lead Industries Group, Ltd;	Jan Feb			Coest Guard and EPA debate best way to dispose of sea water contaminated by mocap from Italian ship Maria Costa	. Mar		20	Instruments Chem Show exhibitors	Nov	14	70
oil and natural gas properties	Jan Feb			Coast Guard and EPA debate best way to dispose of sea water contaminated by mocap from Italian ship Maria	. Mar	14		Instruments			70 55

Earthquake warning for chemical plants	A4	0	24	(Sixth): Worldwide rosin market re-				Isocyanurates—Chlorinated isocyanurates		18	23
Flammable-gas detector, thermal sensing	May	8	34	mains tight-outlook from Walter L.				prices	Apr	10	23
device, looking for work in chemical				Cleaver, Sr., president, PDM Trading,				Turro describes simple way to separate			
plants	Aug	8	36	Inc	Oct	3	21	isotopes by weight at ACS meeting	Sept	19	44
Infrared scanner that can spot oil spills in the dark or in foggy weather being				Chemicals and gasoline compete for				Israel			
tested N	July	25	46	aromatics	Apr	18	31	Bromine compounds sold to China N	Oct	31	30
lonics, Inc. introduces chemical an-				International Symposium on Hazardous				Desert sites: Ramat Hovav complex;	A		24
alyzers at ISA show	Oct	31	47	Waste Disposal—Incinerating wastes at sea: Waste disposal by burning at				others planned	Aug		31
Pittsburgh Conference focuses on re- finements	Mar	14	39	sea (table)	Apr	11	44	talks stalled N	Feb	21	48
Saxas hair-scanning device tracks trace	_			terrestantes				Lasers for extracting hydrocarbons from			
elements	Sept	12	53	Inventories Apparel-fiber inventory liquidation: end				shale deposits tested	Jan	24	38
TI introduces solid-state strip-chart recorder at ISA show	Oct	31	47	seen N	Oct	24	28	isotopes developed N	Feb	21	37
	-			Chemical inventories to drop after			47	Mideast phosphate and potash output			
nsulation				summer spurt—McGraw-Hill survey. N CPI managers are watching inventories	Apr	11	17	to grow N Potash expansion planned N	May	9 25	39 36
Air-bubble technology in insulation	June	20	41	for clues to business trends (chart)	May	23	15	Teomin, Eliahu, managing director of	July	20	30
applications	00110		**	Fertilizer inventories drop sharply N				Israel Chemicals Ltd.: He decided it			
insulation and plastics jobs N	Mar	28	34	Oct 24-28 N	Nov	14	44	was time he had a new challenge	June		66
Standards Cellulose: CPSC amends standards for				Inventories: A replay of 1974? Inven- tories in line with sales now, but may-				Timna copper mines will be reactivated.N	Dec	12	56
cellulose insulation N	July	18	18	be too big for 1980	Oct	3	16	Italy			
CPSC turns down request to set				Polyolefin inventories: market outlook		40	07	Capital spending (table)	Mar	21	30
standards for home insulation N Styrofoam insulation lawsuit: R. Boyer	Mar	14	14	(chart)N Sulfur inventories slide N May 23-24	June	8	37 18	Chemical (and related) industry em- ployees stop work for half a day to			
of Pevely, Mo. names Dow in \$1.65				Tenneco computerized order-processing	rsug			protest government foot-dragging on			
million suit.	Aug	8	19	and inventory-control system called				restructuring proposals N	Dec	5	51
TVA delays plans for insulation from		40		TOPICS	May Sept	23	16 46	CPI losses exceed \$1 billion: creditors seek repayment plan (table)	Jan	31	32
Urea-formaldehyde foam: makers launch	Apr	18	21	Iodine-Prices	Sept	20	40	Chemical trade deficit has doubled N	Sept	12	41
safety studies as DOE ponders new				Ion Exchange				Cosmetics firms seek 'me-too' EEC			
limits; tough CPSC standard due soon .	Nov	28	36	Battelle develops new method for re-				law	Sept	26	69
Urea-formaldehyde foam: Massachusetts bans UF foam insulation	Nov	14	24	moving underwater pollutants No lon exchange system will treat radio-	Apr	11	41	Euteco, DIR may get new financing from banks N	Jan	17	32
Formaldehyde Institute sues Massachu-	PHOV	14	29	active waste at Three Mile Island N	July	18	42	Fiber makers gain some ground N	Jan	31	31
setts over formaldehyde ban	Nov	21	18					Foreign forecast: On balance, 1979			
Urea-formaldehyde foam: Rapco Foam-				Iowa State University				could be a pretty good year-report	lan	24	22
Scientific Applications UF foam pro- cess case to go to trial	Nov	14	25	Researchers are out to recover the mineral riches in fly ash N	Feb	14	36	(charts & table)	Jan	24	23
cess case to go to trial	IAOA	14	20	Safe ways found to dispose of pesticide	reu	14	30	Russia N	Nov	7	48
mulin				wastes	Jan	24	38	Italian government supports recovery			
DNA-derived drugs: Hormones and				I				plans	Aug	22	35
vaccines may reach the market in two				Iran Bandar Shahpur petrochemical complex	Jan	10	31	European CPI is bright this year	Feb	21	46
or three years	June	27	32	Complex at Bandar Shahpur may soon	0011	,,,	01	Montedison: Arab stockholders will			
Insulin-producing living cells are encap- sulated for the first time N	Apr	4	37	be revived N	Aug	8	25	take close look at finances N	May	30	28
Lilly, Eli agrees to give royalty-free				Discussions to get construction going	Sept	12	41	Montedison gets some debt-payment reliefN	Feb	14	43
licenses on insulin patents and asso-			**	Iran will invest more in venture with	Sept	12	41	Montedison, unions move to force	Len	1-4	43
ciated know-how Live-cell inplants: encapsulated pancreas	Sept	20	18	Japanese N	Sept	19	39	government to solve Italy's CPI			
cells may help in treating diabetes	Apr	25	53	Japanese approve financing plan to				problems N	Apr	25	17
				help complete construction of com- plex at Bandar Khomeini N	Oct	24	31	Montedison's sales and earnings for 78 N	Apr	4	44
Insurance				Business climate improves for Japan,				Montedison told to close some units at	· da		
American Insurance Assn. report shows				turns cold for Germans N	Oct	24	31	Priolo, Sicily, complex	Dec	12	26
insurers are concerned about chemical losses	May	30	21	Crisis blamed for DMT shortage in Thailand	Feb	14	43	Montefibre asks for help to avoid bankruptcy N	Aug	Q	25
CPI policy on risks: more self-insurance	may	30	21	Crisis in Iran: what toll in trade?	Nov		17	Novamont sale to USS Chemicals	Aug	0	20
(chart)	Oct	3	40	Fertilizer contracts terminated by Davy				questioned	July	11	20
Hooker in courts with insurors over	D	**	0.4	and H&G N	May		35	Plant managers sentenced to prison for			
coverage for Love Canal	Dec	12	24	Iran's oil: little help to the U.S Oil cutoff prompts concern over feeds		14	18 16	violation of Italy's water-pollution	Nov	21	28
to glass-repair technology	Apr	4	45	Oil supply will tighten, energy execu-				Polyolefin markets	June		38
Iran: Political-risk coverage in Iran only		-		tives told	Jan	31	18	Production in first-quarter '79 increases			
\$54 million	Dec	6	21	Petrochemicals: foreign holdings in four				do not foster optimism about full-year	July		47
Commerce proposes product-liability				companies to be bought; some projects		16	35	prospects	Dec		56
law	Feb	7	20	Political-risk coverage in Iran only \$54				Seveso study blames Icmesa for dioxin			
New Jersey weighs big insurance rate				million	Dec	5	21	disaster	Feb	14	13
Product liability insurance bill set for	Nov	14	27	Trying to cope with chaos in Iran Turmoil shakes world chemical markets		10	31	Faulty reporting of Seveso birth de- fects charged	Ech	28	24
Congressional action N	Auc	29	18	(table)		21	19	Special commissioner under investi-	1 60	20	-
RCRA's costly insurance and deposit				-Letter	June	e 13	5	gation	Mar		24
rules may doom on-site disposal	Mar	14	48	Irani, Ray R., Olin's Chemicals Group				Seveso cleanup still not solved	July	18	23
South Carolina drops proposal on haz- ardous wastes	Jun	e 20	26	president: He took the fast track to the top of Olin Chemicals	Mar	21	50	Seveso contamination studied in three deaths	Sen	1 26	20
ardous wastes	3011	. 20	20	top or our oranicals	· wan			Snia Viscosa-Montefibre merger in jeo-	Oup	. 20	-
Interagency Regulatory Liaison Group				Iraq				pardy N	Jan	10	41
Report sets new cancer-risk rules for				Iraq pressures Brazil for nuclear tech nology in exchange for ore	Mov	21	33	Montefibre's losses halt proposed	Feb	7	2
agencies	Jan	31	23	Oil deal with France			33	merger	. 40		4
USDA's Food Safety and Quality Service joins group N	Feb	7	14	Phosphate project is far behind schedule				this month N	July	/ 11	3
IRLG puts risk into cancer equation		14	12	Ireland-GAF's sheet-vinyl flooring plan	Aug	8	25	SIR: Kuwait puts a lien on Sardoil	A	. 15	21
Can regulators agree on a cancer policy?	Feb	28	46	at Mullingar, Ireland	Jun	e 13	22	refinery in Sardinia N SIR's problems move toward solution .N	Aug		4
Simplified toxicity-test guidelines sought	Con	nt 5	14	and many managery and a second	-		-	Banks move to bail out SIR finances			2
	Seb	ot 5	14	Iron				Trichloroethylene cleared in new study N	Feb	14	3
Interferon				Australian strikes may curb Japan' steel output	i bala	25	36	U.S.S.R. slows down oil sales N	Jan Mai		3
Cetus DNA project	Sec	ot 26	34	Chemically-activated handwarmers base	1	, 20	30	Unions set for strikes, plant seizures . N Uniroyal Chemical to build flexzone	iviai	140	-
Hoffman-La Roche says it has purified			-	on simple iron-powder oxidation chem	-			antiozonants facility in Latina and			
interferon	Jur	ne 27	32	istry from Japan	. Jun	e 27	40	will expand capacity in U.S R	Jun	e 6	2
Life Sciences Inc. plans to market inter- feron		c 19	24	Metallic-glass use in transformer wi save research money	1	: 12	50	Unitaria Lavoratoria Italiana's chemical division head Walter Galbusera: He's			
Tel Oli	Del		44	Iron Disulfide—Fool's gold may boost th	s Dec	12	80	a 'neo-Marxist' who believes in profits	Fet	21	5
Intermediates				amount of liquids derived from coal . I	i Au	8 8	31	- management profits	, ,	-	
Aromatic intermediate prices N	Ap	r 11	29								
Chloroformate prices N	No	v 21	24	Iron Oxides							
Prices N SCM Corp. fine-chemicals plant near	Seg	pt 12	36	Hercules-Amatei agreement to form ne				J			
Brunswick, Ga	Ma	r 28	25	company for the production of magnetic iron-oxides in Japan	r R Jul	v a	22	Japan			
Shell plans chemical complex near				Hercules Brunswick, Ga. Facility t		, -		Ammonia/urea cutbacks continue N	Jur	e 20	4
Edgard, La N	Jar	n 31	13	make Magnox high-performance ma	-			CANDU reactor gets 'no' vote; ATR			
Stauffer Chemical facility to manufac- ture insecticide intermediate ethyl				netic iron oxides	Ap		25	type will be developed N Chemical companies report improved	Au	22	3
chlorsanthemate at its Edison, N.J.				Pigment price	V Oct	t 17	54	sales and earnings in first-half fiscal			
plant R	No	v 28	28	new process for making methacrylates.		c 5	65	1979 N	No	v 28	4
Taiwan tightens control of intermediates			97					Chemical industry makes comeback:			
exports		or 28		Arco polymeric isocyanates plant	vt.			tighter belts fatten Japanese CPI's profits (chart & tables)	See	nt 26	
International Conference on Coal Gasifi-				Lyondell complex in Channelview	,			Chemical industry recovery is con-			3
cation, Liquefaction and Conversion to)			Tex	R Jul	y 11	22	firmed N	Ma	y 2	6
Electricity—Coal conversion technology: Pittsburgh conference zeros in on coal-				Du Pont to drop dyes and U.S. isocy	le boo	ne 13	21	Chemical outlays will rise in fiscal	l De	. 12	
assidiantian apparent (ashlas & diament		0	20	nates	Jul	· 13	0.0	Charles and the same of the sa	- 50	- 10	

CPI is exporting capital as well as goods:				Labeling, detergents see Detergents				OSHA			
Japanese companies now have 19 CPI affiliates in U.S. (charts & tables)	June	6	16	Labeling, drugs see Drugs Labeling, law see Law				Amvac Chemical cited for failure to report DBCP use	Feb	7	18
CPI plans to increase spending N	May	23	30					Amvac told to cut DBCP emissions			26
CPI snaps out of slump (table)	June		42 66	Labor Affirmative action: High court backs				by Californiá's DOSH	May	16	20
Chemically-activated hand warmers based on simple iron-powder oxidation chem-				Kaiser's affirmative action plan as				pesticide standard N Beil at AAAS meeting discusses worker	Aug 7	22	14
istry	June	27	40	Weber loses reverse-discrimination case. Affirmative action: Merck & Co. agrees	July	4	21	and consumer protection	Jan	17	29
Chisso Corp's executives sentenced for	Apr	A	23	to spend \$3.2-million for affirmative				Benzene: Justice Dept. petitions court	Jan	3	19
Cyanamid unit in Japan expands in ag				Affirmative-action priorities poll	July	29	14	on benzene			
chemicals	Nov	14	27	Allied lays off 700 as step in reorgani-				against benzene standard N Justice argues for benzene rule	Feb May	28 30	14
(table)	Nov	21	33	American Cyanamid: OCAW lockout at	Sept	26	64	High Court to hear benzene case	Oct	3	18
Foreign forecast: On balance, 1979 could be a pretty good year-report				Fortier, La. plant ruled illegal	Feb	21	26	High Court hears benzene arguments. Cancer-policy analysis: AIHC critical.	Oct Jan	17 24	53 13
(charts & table)	Jan	24	23	Borden will appeal in worker-informa- tion case	May	30	21	Cancer policy attacked before it's			
Hercules-Amatei agreement to form new company for the production of mag-				Discrimination: Hoffman-La Roche a-				OSHA won't issue final carcinogens	Dec	12	18
netic iron oxides in Japan R	July	4	22	grees to sex-bias settlement	May	23	19	policy before middle of next	_		
Hitachi Zosen mechanical pulping pro- cess to make newsprint from bagasse				use if workers wear protective equip-	Sept	10	14	month	Dec	19	18
is available N franian petrochemical complex at Ban-	Aug	1	27	mentN EPA steps up efforts to protect pesticide	aehr	12	14	nate	Sept	19	26
dar Shahpur	Jan	10	31	workers: plans closure and container standardization	Aug	15	22	Chlorine exposure standard: stricter standard delayed	Feb	21	18
Complex at Bandar Shahpur may soon be revived N	Aug	0	25	Europe: Outlook for labor peace in CPI				Ceiling set on exposure to chlorine	July		23
Discussions to get construction going				is bright this year	Feb	21	46	Court stays enforcement of OSHA's revised standard N	Oct	24	14
again	Sept	12	41	American Cyanamid and Allied Chemi-			400	Coke: API asks Supreme Court not to review coke standard	Jan	21	21
Japanese N	Sept	19	39	NIEHS studies effect of four chemicals	Jan	10	18	Cost-benefit analyses opposition reaf-			21
Japanese approve financing plan to help complete construction N	Oct	24	31	OSHA seeks \$24,000 in fines from	Jan	31	21	firmed	May	23	14
Menthol markets: imports from Far East threaten U.S. markets	Nov	13	49	Cyanamid	May	16	25	\$100 to settle dispute over Nitro,			
Methanol shortages foreseen by 1990 N	June	13	40	Cyanamid is charged in sterility case Firestone gets COWPS approval for	Oct	17	23	W. Va. plant	May	16	27
Naphtha price agreement N Oil and chemicals. Era of peaceful co-	May	30	27	URW contract	Nov	7	25	charges against OSHA violators	Aug	15	21
existence? - report. Meyer Lurie				Firestone Tire & Rubber Co.'s Swiss subsidiary ordered to pay a \$1.6-				Is there a workplace cancer epidemic? OSHA seminar hears both sides	Sept	26	44
(tables)	Oct		70 89	million penalty for alleged violation of				-Correction	Oct	3	44
Petrochemical makers seek direct im-				a union contract at the Pratteln tire plant	Dec	5	27	Labor Dept. taken to court over dis-	1404		
ports of naphtha N Approval for naphtha imports N	Feb	21	24 48	France's Rhone-Poulenc finding jobs for workers it laid off	Jan	10	42	closure of workplace hazards N Labor rallies to resist attempts to	Oct	3	14
Petrochemical output climbs N Phosphate detergent ban N	Jan Oct	31	31	German chemical workers get moderate	Jan			weaken OSHA N	Арг	4	18
Polyolefin markets	June		38	pay boost	Apr	4	44	Lead standards delayed N Court stays enforcement of OSHA	Feb	7	14
Polypropylene unit at Kashima: con- struction will resume N	May	0	39	out for a hefty pay increase N	Aug	8	25	lead standard N	Mar	7	14
Reactor know-how to be traded with				Employees reject union leaders' advice, accept company offer N	Aug	15	29	Lead standard appendices N Procedures for response to employee	Out	31	14
Germans N Steel makers feeling the effects of pro-	Feb	21	37	Great Britain: ICI moves to improve productivity, will cut staff N			40	complaints about hazardous working conditions will be changed N	Aug	15	14
longed strikes at Australia's two	hate.	05	20	Gum workers pay level to be checked	May	9	40	U.S. Steel, OSHA agree on respirators			
largest iron-ore operations N Syntex anti-inflammatory drug approved	July	25	36	by Labor Dept	Dec	19	24	for coke-oven workers N OSHA and NIOSH may be patching up	Mar	21	38
for more uses in Japan N U.S. steps up pace of international	June	6	30	rule on whether workers may refuse				differences N	May	2	14
energy agreements N	Dec	12	50	hazardous tasks	Oct	10	14	OCAW: Goss wins close race for OCAW presidency	Aug		24
Jefferson, Edward GDu Pont's next president	Oct	24	18	Safety and Health recommends the	Inn	3	19	He's set for tough challenges in 1980s . OCAW leaders want the Feds to buy	Dec	19	96 .
Johns Hopkins University—PCB checks				use of economic incentives	Jan	3	19	crude	June		20
follow workers' complaints	Nov	28	25	Frank Martino: Reflections on the Great Depression	Oct	24	49	OCAW pushing for pay hike reopener OCAW rejects oil firms' first pay pro-	Oct	10	22
Medicine—Study links estrogen use with uterine cancer	Jan	10	18	ICWU seeks ban on Eli Lilly herbicide				posals N	Jan	3	13
Jojoba plant may become a source of	Juli	10	10	Oryzalin	Nov	14	28	OCAW imposes news blackout on negotiations with refinery workers R	Jan	10	21
cosmetics, pharmaceuticals, lubricants, surfactants	Feb	7	31	Energy and General Workers Unions cites danger to rubber workers N	Mar	20	37	OCAW seeks reopener clauses in con- tracts with refiners	Jan	17	18
-Letter	Mar	14	5	Investments in worker safety and	IMOI	20	37	OCAW's Mazzocchi wants company			
Jordan				health: McGraw-Hill Economics Dept. survey (table)	May	30	59	research data to be released to the scientific community		19	26
Arab Potash committed for potash sales	Sept	26	53	Italian unions set for strikes, plant				OCAW's national ready for bargaining Outlook for 1980: leaner economy,	May		22
Mideast phosphate and potash output				seizures N Italy: chemical (and related) industry	Mar	14	40	fatter payrolls; major vage pacts up			
to grow N Potash complex building to begin N	May	10	40	employees stop work for half a day to protest government foot-dragging on				for renewal in 1980 (chart & table) Paper workers' AWPPW members reach		19	19
				restructuring proposals N	Dec	5	51	contract agreements	Feb	28	24
L/				Japanese study links glass-fiber dust and lung disease	Jan	3	18	Plant closings: proposed bill would aid workers to take over plants being			
K				Kaiser backs summer job program for				shut N Plant sites 1980—report. John M. Winton	Feb	14	23
"K-'79" International Plastics and Rubber				students	June	13	45	Key labor cost data for all 50 states			
Fair-K-79 in West Germany: optimism				Layoffs see Employment				(table)	Dec	5	82
for plastics	UCT	17	22	NIOSH Arsenic warning due soon	July	18	24	a growing trend	. Jan	17	34
director of Shin-Etsu Chemical Co. Ltd.: He says U.S. is best place for investing				Asbestos: tests on home hairdryers show small amounts of asbestos N	Aug	22	14	Retirement: Study says most want to keep working. Personnel managers are	1		
capital	Mar	14	52	Benzene gloves defective, report finds .	Oct		20	Rubber industry contracts: countdown	. Mar	28	32
Kaplan, Jay G., senior vice-president of M&T Chemicals Inc.: A few unique				* Benzidine-based dyes may be car- cinogenic N	Nov	21	14	to rubber bargaining	Feb	14	33
accomplishments to go	Nov	28	56	NIOSH asks end of commercial use.N	Dec		65	Rubber industry: URW, Firestone T&R sign no-strike pledge.	Feb	21	21
Kennedy, Donald—FDA commissioner resigns to take post at Stanford N	Apr	25	18	Brain-tumor deaths at UC's Texas City, Tex. facility studied	Feb	28	22	Rubber industry: URW reaches settle-			
Kerosene-Charcoal startup product ma- terial	July	4	33	NIOSH finds more brain cancer a- mong chemical workers at UC and				ments with three of Big Four Scott Paper's Everett, Wash. union	. Juni	27	23
Klaas, Paul, p.esident of J. T. Baker	July	4	33	Monsanto Texas plants	Mar	14	19	accepts three-year contract R	Feb	28	24
Chemical Div.: A strong believer in R&D	Aug	1	44	Widows of two employees file suit over husbands' deaths from brain				Steelworkers push for stronger federal policy on safety and health N		12	14
Korea-South Korea seeks more raw			40	tumors R		25	25	Strikes			
materials in U.S N	May	9	40	Five more tumor cases found at Carbide	Aug	8	22	American Cyanamid's Bound Brook, N.J. workers return to work	. Jan	31	19
Kuwait Hydrodesulfurization units contracts to				Glass fibers: mortality study of workers exposed to glass fibers	Jan	3	18	Anchor Hocking's St. Paul, Minn. plant strike	Mor	21	26
Union Oil	Oct	31	23	HEW compiling list of workers ex-				Australian strikes may curb Japan's	3		
Sardinia N	Aun	15	29	posed to dioxin		15	14	Canada refiners face strike threat N	I Feb	25	36 44
Synthetic-detergent plant N	Nov		76	sion in sales of four respirator models		16	18	Great Britain: truck strike hurting chemical makers Jan 24-15 N	3		31
				Standrds to protect workers from				Truck strike ends, but problems	5		-
				hazards in confined areas called for N Union Carbide's South Charleston,		19	18	Johns Manville's Waukegan, III., worker	Feb	21	48
Labelles				W. Va., chemical plant: NIOSH in-		. 20	24	strike over medical issues	. Apr	4	22
Labeling Beverages: Ingredient labeling proposed				vestigates cancer rates		29		gains access to members' medica	d .		
for beer, wine and liquors N EPA is readying proposal for labeling	Feb	14	23	79 bargaining: labor pacts will boost con-	Sep	t 12	42	Netherlands: strikes hit petrochemica		18	33
under TSCA law N	Nov	7	14	struction and operating costs (table)	Jan	24	11	plants		3	31

Olin's firearms plant at New Haven,				Cotton, Inc. is under scrutiny of USDA;				Olin mercury trial nears close in New	Aug	22	20
Conn. strikes continues	Oct	17	24	J. Dukes Wooters is object of direct request for dismissal	Aug	22	30	York	rug	22	20
Cascade		21	21	Dalkon Shield-brand intrauterine con-			-	weighs researcher's suit against Ortho			
Teamsters strike may pinch			23	Robins must pay \$6.8 million	Aug	8	20	Pharmaceutical	Nov	28	25
URW on strike at Uniroyal sites	May	10	22	Stockholders get new try in A.H. Robins	Aug	U	20	Pesticides see Insecticides—Pesticides			
Md. and Convington, Va. mills				suit Delaney amendment repeal, saccharin	Oct	3	25	Plant closings: proposed bill would aid			
following ratification of labor contract	Feb	14	18	ban extension called for in new bill. N	Jan	31	23	workers to take over plants being shut N	Feb	14	23
Weyerhaeuser settlement ends Coast				NAS saccharin study proposes reform				Pollution cases, legislation see Air			
paper strikes	May		23 22	of Delaney amendment	Mar	7	19	Pollution; Environment; Waste Dis- posal; Water Pollution			
Teamsters mount boycott against PPG Union, IAM, sues OPEC for oil-price	Dec	5	22	Discrimination: Hoffman-La Roche a-				PBBs see Polybrominated Biphenyls			
hike N	Jan	10	13	grees to sex-bias settlement	May	23	19	PCBs see Polychlorinated Biphenyls			
Court defers ruting on OPEC anti-	July	4	18	Discrimination: Uniroyal fights contract debarment on grounds that it dis-				Product liability see Insurance Rapco Foam-Scientific Applications UF			
Union members on U.S. company	July	7	10	criminated against women and minori-				foam process case to go to trial	Nov	14	25
boards: no rush to give labor a di-			07	ties	July	11	20	Regulatory agency's rules or regulations			
rector's seat	Dec	19	87	"Drug Regulation Reform Act" FDA resurrects its 1978 drug-reform				challenged in the form of an amend- ment to the Federal Courts Improve-			
hazards N	Sept	19	18	bill	Mar	21	23	ments Act	Sept	19	23
Unions are seeking to reduce working hours: International Federation of				Drug-regulation reform proposals draw praise	Mar	28	18	Regulatory Council calendar lists rules			
Chemical, Energy and General Workers				Kennedy bill wins key support: Com-				that will take effect in next six months	Mar	7	14
Unions Levinson backs drive N	Apr	11	54	mittee on Labor and Human Re-	A	8	20	Regulatory Council's docket of pro-	_		
Unions stressing health issues in new chemical industry contracts	Apr	18	33	Sources endorses bill Drugs see also Drugs	Aug	0	20	posed 1980 rule-making actions Regulatory Reform Act of 1979	Dec	12	19
Uniroyal fights contract debarment on				Du Pont lead antiknock pricing see Lead				Regulatory reform bill prepared by			
grounds that it discriminated against women and minorities	July	11	20	EPA did not exceed its authority by asking Dow to file health, safety and				White House N	Mar	14	14
U.K. labor-law reforms could trigger	July		20	other studies rules Philadelphia Court .	Sept	26	21	Procedures would require regulatory agencies to conduct economic anal-			
strike N	July	18	38	EPA exceeded authority in dropping				yses of their regulations	Apr	4	21
U.K. union movement shows its strength	Aug	8	26	methyl chlorform and methylene chloride from an exempt list suit				Resource Conservation and Recovery Act EPA data supports \$750- nillion RCRA			
USW claims Du Pont is shorting em-				charges	Apr	4	25	cost	Jan	17	19
ployees	May	23	20	Federal Insecticide, Fungicide and Ro-				Kin Buc landfill in Edison, N.J.:			
Wage-price guidelines see Salaries Lactulose – Richardson-Merrell's new laxa-				denticide Act (FIFRA) Supreme Court dismisses Mobay's ap-				Justice, EPA sue under RCRA RCRA's costly insurance and deposit	Feb	14	13
tive Chronulac: Patients do not develop				peal on 1978 FIFRA amendments N	Jan	17	14	rules may doom on-site disposal	Mar	14	48
addiction when using prescription pro-	Oct	24	50	Monsanto sues over pesticide amend-	Apr	11	22	Waste sites may be major liability for			
duct	Oct	29	90	House Committee votes limits on EPA	Mhi		22	CPI: EPA and Justice launch an aggressive campaign to sue over			
Lasers				authority	May	16	27	dumpsites	May	2	15
Airborne laser detects spilled oil	June	13	29	Are FIFRA amendments constitutional? Supreme Court may have to decide.N	Oct	24	14	Exemption may be too large a loop-		20	20
Israelis test lasers for extracting hydro- carbons from shale deposits N	Jan	24	38	EPA's Jellinek blasts ag chemical	001			AIChE meeting message: New rules	May	30	22
Laser probe permits analyses of chemi-	Jan	24	30	industry for filing FIFRA suits N	Nov	7	14	for hazardous wastes: burn them,			
cal reactions as they occur N	June	20	56	EPA cannot appeal constitutionality directly to Supreme Court but must				bury them, or change them	Aug	29	44
Navy Research Lab process employs laser to coat surfaces N	lan	10	34	present the issue to N.Y.C. appeals				Eckhardt calls for tougher enforce- ment of hazardous-waste rules N	Oct	17	18
Latin America-Foreign forecast: On	0011		•	FTC: Congress ponders curbs on FTC's	Dec	12	28	EDF makes headway in dispute with			
balance, 1979 could be a pretty good	lan	24	22	power N	Dec	5	18	EPA over issuance of RCRA rules. N Pressure builds for EPA to move on	Nov	14	18
year-report (charts & table)	Jan	24	23	power N Firestone is assessed \$10,000 in tax			10	waste rules (table)	Nov	14	65
				Formica tradename gets support in	Aug	8	18	Saccharin ban see Sweeteners			
Affirmative action: High court backs				Congress N	May	9	14	Safety: legislation would set criminal penalties for concealing safety risks. N	Aug	8	14
Affirmative action: High court backs Kaiser's affirmative action plan as				Formica loses round in battle for		- 12	14	SEC requesting either that Sun Co. be		-	
Weber loses reverse-discrimination				Goodrich (BF) pleads no contest on	Juni	e 13	14	ordered to divest Becton, Dickinson &			
Aleshans apuld ant a share of all piece	July	4	21	tax charges	Jan	24	17	Co. stock illegally acquired or that sellers be deprived of the premiums			
Alaskans could get a share of oil pipe- line under proposed stock plan	Mar	7	46	Hawaiian court rules that a state law				they received R	Sept	26	24
Allied and executive indicted on kick-				prohibiting the sale of beverages in plastic containers is illegal and un-				Shale oil see Shale Oil Silkwood damage suit: Testimony be-			
Allied settles Armco coke-oven law-	Apr	25	24	constitutional	Sep	t 5	23	gins	Mar	21	24
suit	Sep	t 26	19	Falls, N.Y. suit see Waste Disposal				Silkwood case decision to be appealed	0.6	20	20
Antitrust see Antitrust Asbestos: Johns-Manville to stand trial				Indians: Amoco sues over who levies				by Kerr-McGee	May	30	20
for suppressing asbestos-hazard evi-				energy taxes—New Mexico or Indians . Indians: CERT and DOE continue	Mar	7	17	family	Aug	29	24
dence	May	16	25	energy talks with Indians		22	19	Small and Independent Business Protec- tion Act of 1979 (Senate Bill 600):			
Asbestos: Producers may have to help fund search for asbestos in schools. N	Mar	21	18	Indians: Maine Indians unhappy with				Kennedy's bill would limit size of all			
Benzene see Benzene	IVIO	21	10	paper firms' land offer Indians: oil firms sue in Utah over Navajo	Mar	14	19	mergers, reshape antitrust policy	May	16	38
Borden will appeal in worker-informa-		- 00	04	tax plans	Mar	28	21	Sohio's Long Beach, Calif. terminal see Terminals			
CBS and others sued by New Jersey	PVIAY	/ 30	21	Jackson's omnibus energy bill: amend-				Squibb's pregnancy-test drug Gestest:			
chemist over report on pollution	Sep	t 12	25	ment would weaken clean-air standards says Muskie N	July	18	18	company settles suit over birth defects	lan	17	21
California: Judge overturns law stifling nuclear power	Mar	21	24	Justice Dept: Roisman, Anthony joins				out of court	Jan	17	21
Canada: Asbestos Corp. files suit to	iviai	21	24	Hazardous Waste Section N Kepone lawsuits see Insectirides -Pesti-	Oct	31	14	tled out of court	Jan	31	21
prevent takeover by province of			47	cides				Strip-mining bill is "poorly suited" to non-coal mining says NRC report N	Dec	5	65
Quebec N Canada patent law sparks drug con-	July	4	47	Labor Dept. taken to court over dis-				Styrofoam insulation lawsuit: R. Boyer	Dec		00
troversy: Novopharm applies for license				'Law or Manners.' You can't have it both	Oct	3	14	of Pevely, Mo. names Dow in \$1.65-			
for ulcer-drug similar to SmithKline's Tagamet	000	10	51	ways-Viewpoint	Jan	3	5	million suit	Aug	8	19
Carter's energy package see Energy	OU	. 10	01	-Letters		17	5	Syntex faces lawsuits over recalled			
Crisis				Lead-in-gasoline see Gasoline Life-form patent case to be heard by				formulas	Aug	22	30
Carter's plans for innovation: mixed reaction	No	7	54	Supreme Court	Nov	7	20	Syntex nears naproxen, anti-arthritic drug, lawsuit settlements	Feb	28	22
Cephalexin: Eli Lilly lawsuits charge			-	Lilly, Eli & Co.'s DES case: Jury awards damages in DES case	laste	. 25	21	Synthetic fuels see Fuel	, 60	20	22
patent infringement R	July	y 18	27	Mitsubishi fined in trade-secrets case	July	25	21	Taxes: up for oil, down for others			
Lilly granted injunction against Premo and Federal in patent case R	July	y 25	24	involving the theft of polyester film				(chart)	Aug	8	16
Chrysler aid package in Congress could				process trade secrets from Celanese Mobil drops talent-theft suit against	May	9	19	Asbestos: EPA wants sweeping con-			
have widespread effects on CPI (table). Clean Air Act	Dec	19	23	Superior	Jun	e 27	24	trols on asbestos	Oct	24	18
Amendments hamper future growth of				Moorhead bill would allow the govern- ment itself to build synfuel plants if				on TSCA rules	Jan	31	38
EPA proposes stiffer fines for air	Jan	24	16	necessary: views of companies' execu-				CSMA criticizes TSCA at House		-	
pollution		r 28	22	tives (charts)	July	/ 18	20	hearings	Mar	21	18
EPA will go easy on states that missed				Morhange talcum powder case (1972): French criminal court begins to hear				cals inventory to industry N	May	16	18
deadline for air-cleanup plans	. Jul	y 4	19	testimony	Oct	31	22	Another 347 chemicals added to EPA	July	11	14
up in air	Jul	y 18	48	Mortar additive suits name Dow Natural gas regulation see Natural Gas	No		22	SOCMA chides EPA for its handling	July	11	14
EPA readies final list of industries that	1		14	New Jersey cancer bill stalled, air rules				of chemicals inventory N	Aug	1	10
must meet new-source rules N Changes are being considered	. No		14 25	pass	Oct	24	20	EPA is readying proposal for labeling under TSCA law N	Nov	, 7	14
Congress: number of key subcommittee	1	~		OSHA see Labor Offshore leases see Leasing				EPA offers four choices for testing			
chairmanships of importance to CPI. Congress has some new faces in charge		b 14	16	Oil-firm acquisition bill passes com-				under TSCA	Mar	7	23
of key subcommittees	. Jar	10	19	Olin asks for change of venue in mercury	No	28	23	rules	May	/ 16	24
Container firms settle suit for \$298.1				trial	. May	y 2	18	EPA proposes test standards for			
million	. Ma	ry 9	19	Olin's mercury trial delayed by adverse publicity		y 16	24	inventoried chemicals N EPA proposes standards for TSCA	May	/ 23	35
regulations may be required of agen			20	Mercury measurements debated at	1			chemicals tests N	Jun	e 27	
cies F	i Jan	n 17	22	Olin trial	. Au	9 8	20	EPA readies premanufacturing rules	Jan	10	20

EPA extends hearing for premarket					Licensing-Japanese companies step up				Mulaysia				
notice rules N Premanufacturing notification pro-	Feb	7	35		technology licensing	Dec	5	66	Asian countries plan a common market for drugs	Sept 1	19	39	
	Feb	28	14		boost	June	20	42	Japanese utilities bid for LNG output from Malaysian project N	June		30	
	July	11	22		Lignin Sulfonates				Malaysia plumbs depths for petro- chemicals: South China Sea gas is key	June		00	
facturing notification form R	Aug		30		Tertiary oil recovery using lignosul- fonates N	May	30	55	to development (map)	Dec		52	
Cost of completion of premanufac-	Oct	3	14		Wood chemicals inject new life into tired oil wells	June	20	65	Urea plant N	Apr	18	26	
	Oct	17	18		Lignite				Moleic Anhydride Monsanto plans plant R	Apr :	25	25	
New PMM form: on the right track,	Nov		50		Dow contract to Fluor Mining & Metals to study surface mining of lignite R	Feb	14	18	Plant to be built in Pensacola, Fla R Prices N Jan 3-40, N Jan 17-36, N Feb	Aug	29	27	
EPA revokes rule calling for extensive	Feb	7	14		Gasification, pelletizing tests show way to more efficient use of lignite N			36	21-30, N Mar 28-28, N May 2-49, N June 20-32 N	Aug	8	23	
health and safety data on chemicals N EPA readies a monitoring plan for						Aug	22	30	Malpes, Robert, president and chief executive officer of Halcon International:		-	_	
toxic substances N EPA sets up office to help industry	Aug	22	36		Lime Davy Powergas to market lime-based				Ex-rugby star wants to be where action		04	***	
cope with toxic substances act Environmentalist 'fed up' with EPA's	Jan	17	30		flue-gas desulfurization system N Domtar plans expansion at Beliefonte,	Apr	25	48	Management	Jan	31	52	
handling of toxic-substances act N Interagency testing committee see	Dec	12	18		Pa	Aug	15	24	Acquistions and mergers see Industry				
Testing-Toxic chemicals					steel, pollution-control demand (chart).	Apr	11	30	Developments and individual company names in Company Index				
MCA says any major changes in TSCA would be premature N	Mar		14		Marblehead Lime expanding lime ca- pacity	Jan	3	21	Affirmative action priorities poll Affirmative action: Supreme Court	Aug	29	49	
MCA scores TSCA rules N Other views: Let's reason together and	Apr		18		Liquefaction				backs Kaiser's affirmative plan as Weber loses reverse-discrimination case	July	4	21	
simplify PMN. Marco Wismer	May	16	5		Ashland's H-coal plant at Catlettsburg, Kv.:				Air Products and Chemicals' president	July	•	21	
tain N Small chemical companies brace for	May	23	14		DOE coal plant study 'distorted' says Ashland	June	27	25	and chief operating officer Dexter F. Baker: The top job in Europe led to				
TSCA's impact	May	2	57		Senate budgets \$7.5 million more for				the top at home	Apr	11	70	
Toxic Substances Strategy Committee report advances few surprising regula-					H-coal process	Oct	10	24	of air travel	June	13	45	
Will toxic substances laws be trade	Aug	22	20		conference zeros in on coal-gasifica- tion processes (tables & diagram)	Aug	8	32	line under proposed stock plan	Mar	7	46	
barriers?	Mar	7	39		DOE lining up projects to test feasibility of indirect liquefaction for motor				Alcolac's chairman and chief executive officer Marie Louise Blinoff: She's				
needed to prevent severe technical					fuel N	Dec	5	18	continuing in her late husband's tradition	Apr	25	64	
and economic disruption in inter- national chemical markets	Apr	25	46		Fool's gold may boost the amount of liquids derived from coal N	Aug	8	31	Allied charts a new course: Edward Hennessy sets quick pace in search of				
Transco ordered to pay more in damages to FCA and CF Industries	Feb	28	24		Japanese will join West Germans in funding coal-liquefaction project near				higher profits	Nov	7	42	
Truck deregulation bill may be in for a long haul in Congress	Jan	31	20		Morgantown, W. Va N OMB may scale back DOE's synfuel	May	16	35	zation	Sept	26	64	
Administration proposes truck-deregu-		e 27			request	Oct	24	18	Allied names heads of its reorganized units	Oct	3	21	
lation bill	Juli	. 27	20		Solvent refined coal: designers of SRC plants submit proposals for demon-				Allied names Hennessy for president's post	Apr	4	25	
U.S. Criminal Code revision contains new felony offense called "endanger-					station units N SRC-I coal-to-solids project	Aug	17	31 28	-Letter	May	9	5	
ment"	Dec	12	26		SRC-II pact signed by U.S. and Germans . Liquors—Ingredient labeling proposed . N			28 23	dent	Apr	11	39	
Westinghouse settles for \$381 million with Vepco	Ap	r 25	24		Lithium – Lithium chemical prices N Lomonosov State University – Catalysts	Sept		46	Allied's Connor named to head financial group	Nov	14	22	
Westinghouse settles uranium claim		y 23			for olefin polymerization: ACS meeting .	Apr	11	45	Allied's new president Edward L. Hennessy, Jr. joins Travelers board	Aug	22	20	
Westinghouse presses its case (chart &					Lubricants				Allied Resources—new name for Allied Chemical? N	Dec	19	17	
Warner-Lambert execs face criminal	Jul	y 25	25		CSMA's Transportation Division exam-				American Cyanamid management chang- es: George J. Sella, Jr. elected presi-	544			
charges in connection with a 1976 explosion at Chicle Division bubble-					ines fuel-economy motor oils Jojoba plant may become a source of		12	39	dent; Treasurer Martino becomes v-p;				
gum plant in Long Island City, N.Y		y 18			lubricants	Feb	7	31 5	Liffers elected member of finance committee; Forbath retires	Sept	26	64	
"Windfall" tax: Lines drawn	Ma	y 2	21		Olin develops cluster-like silicate esters that withstand water	Mar	7	37	American Cyanamid's Affleck denies knowledge of take-over bid R	Dec	19	24	
House may toughen proposal Approval seen for windfall-profit tax	Ma	y 9			NPRA's 1979 fuels and lubricants	iviei	•	0,	American Thermoplastic Corp.'s presi- dent Anthony O. ("Tony") Shelby:				
Modified windfall-tax bill passed by House	Jul	y 4	1 19		meeting: Refiners seek supply-demand answers	Nov	14	52	He learned the resin business 'lan-			00	
Worker's refusal of hazardous tasks to get Supreme Court ruling N		1 10) 14		Phillips Petroleum re-refining process: Demetallization and hydrotreating are				guage' AmeriGas' president Edward Edmunds,		5	88	
Lead					keys N Lumber—Lumber companies are accele-	Apr	4	37	Jr.: He likes to build things, not just operate them	Nov	14	88	
Air standards					rating their buildup in pulp and paper	Aug	1	13	Anti-bigness push: Kennedy's bill would limit size of all mergers, reshape anti-				
OSHA delays putting lead standards into effect N	Fe	b :	7 14	1	(charts & table)	Aug		13	trust policy Letter (cover correction)	May		38	
Court stays enforcement of OSHA lead standard N	Ma	er 7	7 14	1	executive v-p: Former weatherman is still doing forecasting	June	13	52	Arco Chemical Co.'s president Harold		20		
OSHA finally issues lead-standard appendices N		t 3	1 14						A. Sorgenti: Almost a CE dropout, he stuck and made it big	Aug	29	60	
Antiknock pricing studied by FTC	Mi	y 23	3 19		IVI				Aries, Robert S. plays a return engage- ment.	Sept	19	24	
Antiknock gets a bum rap-Viewpoint. Du Pont charges FTC complaint		ay J		,	Machinery-Nonelectrical chemical pro-				Ashland Chemical's James D. Idol, director of venture research: He made				
against lead antiknock pricing prac- tices denies free speech right	Oc	et 10	0 18	В	cess machinery orders	Nov	21	21	some dramatic changes pay off for him		28	61	
FTC and Du Pont spar over 'price signaling' on antiknock compounds		ec 1:	2 2	2	of Ciba-Geigy	Nov	21	18	Ashland Oil: Divestments were part of		20	01	
Australian oil industry wants to use filters to cut lead emissions N		ug 1	5 3	R	Magnesium				out; chemicals still play big role	Mar	21	43	
Fetal safety controversy see Cancer					Auto-industry use of materials: big changes ahead	Aug	15	19	Ashland may expand away from Ashland, Ky	Sept	5	18	
WHO studies exposure levels for heavy metals	Ju	ine 2			Dow antitrust suit: Justice near de-			18	Avtex Fibers; Jim Crutchfield, vice- president of marketing: He weaves a				
Lead Oxide—Prices N League of Industrial Assn.'s Inc.—Califor-		eb 2	1 3	0	Dow Chemical metallurgical granules				new career from familiar materials	Mar	28	64	
nia air rules. San Francisco Bay area companies take their case to court		ıly	4 1	9	plant planned	June		27 20	Baker, J.T. Chemical Div.'s Paul Klass, president: A strong believer in R&D	Aug	1	44	
					NL Industries negotiating the sale of its magnesium operation in Utah R	Dec	5	43	Beatrice Foods Co. finds recipe for success in specialties	Sept	5	71	
Leasing Coal: government's coal leasing program									Beker comes back strong, but stays lean. Bofors Lakeway Inc.'s vice-president	Nov		28	
facing new problems as the Interior Dept. attempts to restructure it and					Magnetics Battelle develops new method for re-				Haakan Cederberg: This Swede doesn't				
put it into effect again in 1981 Offshore	. 0	ct 2	4 2	3	moving underwater pollutants N Israeli scientists develop magnetic meth-		11	41	fit the mold		12	60	
Lower bids for leases in Baltimore					od to separate uranium isotopes N Magnetic heat pump achieves 60%	Feb	21	37	Robert W. Gutheil: He's strong on selling but only if done 'right'	July	25	50	
Santa Barbara offshore oil leases bide			7 2		efficiency in NASA tests	Mar	28	34	Calgon Corp.'s Harry C. Conger, vice- president and general manager: Flying				
total \$994 million		aly 1	1 1	9	Maintenance				helped his career to take off	Nov	7	00	
decision rejecting Interior effort to invalidate western oil-shale leases)	ict 1	10 2	8	Battelle wants safer procedures to repair pressurized pipelines N	Fah	14	36	Thomas Maurice Moran: He learned to				
Utah oil shale: High Court move will de					Bridge maintenance: specialties cut the			52	be cool under fire	Aug	8	48	
lay White River Oil Shale Project	, Ji	une 2	20 2	8	bridge toll		29		ChEs is heating up	June	27	47	
Libya Occidental Petroleum and Libya agree					\$1 billion (table)	July	25	48	plans an activist role in a future that hints of moderation	June	13	19	
to settle differences	it.	an 2	24 1	7	formulation and pressure system Infrared scanning detects hot spots in	Apr		45	Chemical Manufacturers Assn.'s Robert	t	13	19	
under construction		an 1	10 4	10	chemical plants	Mar	28	35	A. Roland: He changed more than the name.	Oct	3	56	

China's door is open but it takes time to					Israel Chemicals Ltd.'s managing direc-				Uniroyal's vice-president Bob Miller:		_		
get in	Ja Se			32 70	tor Eliahu Teomin: He decided it was time he had a new challenge	June	20	66	The ivory tower is not his habitat Unitaria Lavoratoria Italiana chemical	Sept	5	83	
Cibe-Geigy's new president A.M. (Don)		pt	5	70	Kaiser backs summer job program for	Julio	20	00	division head Walter Galbusera: He's a				
MacKinnon	No	ov 2	21	18	students,	June	13	45	'neo-Marxist' who believes in profits Unitech Chemical Inc.'s president James	Feb	21	56	
Cities Service's L. Robert Hellwig: He finds the living easy and the job a					M&T Chemicals Inc.'s Jay G. Kaplan, senior vice-president: A few unique				M. Snodgrass: He's a trained engineer				
challenge	M	ay S	30	68	accomplishments to go	Nov	28	56	but prefers operations	May	16	.64	
Cleveland CPI firms given little say as city's problems mount	Ja		31	33	Mallinckrodt's new president Raymond F. Bentele picked from within	Jan	3	20	USS Chemicals plans for future payoffs. Ver Hoever, Raymond W. resigns as	Nov	28	52	
Commercial finance enables companies		11 4	31	33	His eye is on target when hunting	Juli		20	Velsicol president; will become execu-				
to use money they have yet to collect					game—or profits	Feb	7	48	tive vice-president of Texas United	Sept	20	19	
as collateral for a loan	Ju	ine	6	40	dent and chief operating officer: He				WHO studies exposure levels for heavy	Sept	20	18	
senior vice-president: Conco's Burns					fled the lab at his first opportunity	Oct	10	56	metals	June	27	36	1
uses the team approach	De	BC '	12	72	Mobil drops talent-theft suit against Superior	June	27	24	Witco Chemical's Organics Div. Alfred P. Marone, corporate vice-president				
Corporate aid to colleges is on the upswing		av	2	62	Mohawk Rubber employees—out of	June	21	24	and general manager: He took the long				
Courtaulds Ltd.'s Christopher A. Hogg,		-,	_		work since Akron tire unit closed-				way around to reach the top	Apr	18	48	1
chief executive officer and chairman elect: Ex-paratrooper jumps into top					want to buy and run the plant NL Chemicals' president Fred W.	Jan	17	34	Manpower, Technical				
spot		ct :	24	62	Montanari: Computers helped him to				Chemical engineering graduates are in				
Diamond Shamrock Corp. corporate					move up	July	11	48	short supply, industry finds	Nov	14	78	į.
headquarters moving to Dallas	Ju	ine	6	21	Niacet Corp.'s president Michael R. Brannen: Carbide said sell Niacet, so				Chemical engineers: Search for minority ChEs is heating up	June	27	47	,
South Africa policy	Ja	n ·	17	34	he bought it himself	Jan	24	48	Chemists: glut again?—letters Mar 28-5.	Apr	18	5	5
South Africa policy			-		'79 bargaining: labor pacts will boost con-	Jan	24	11	Chinese will train in U.S. CPI plants Salaries: starting salaries for scientists	Sept	5	70	1
-Letter	Fe M		28	27 5	struction and operating costs (table) Occidental names Zoltan Merszei, former	Jan	24		and engineers hit a new high in 1979.N	Dec	19	18	1
Dow chairman Merszei resigns; Earle B.					Dow chairman, vice-chairman	Apr	25	22	Shortages of petroleum and chemical				
Barnes replaces him	. Fe			33	Oxy looks to Merszei to revive profits of Hooker Chemical	May	30	18	engineers, geologists, and geophysicists will continue R	Aug	29	49	
Dow's executive v-p Robert W. Lundeen:		,	21	20	Merszei replaces Baird as president	Aug	1	17	Toxicologists: Federal government wants	. 109			
Former weatherman is still doing	1				Occidental Petroleum v-p Donald Lee				to hire toxicologists N	Apr	11	18	į.
forecasting	Ju	ine '	13	52	Baeder, president of Hooker Chemical: Occidental made him an offer he				Women now make up 13% of scientific workforce N	Apr	25	18	3
Duperial's Martin is on guard against					couldn't refuse	June	27	56	Manufacturing Chemists Assn. see Chemi-				
inflation	. M	ay :	23	48	Occidental's takeover bid for Mead:			20	cal Manufacturers Assn.				
Du Pont taps Edward G. Jefferson to be next president		ct :	24	18	How Mead dodged Oxy's 'bearhug' OSHA's Bailus Walker, Jr., head of	Mar	14	32	Marine Specialties				
Du Pont's Robert C. Forney: This					health standards programs: He's not				Marine coatings: will new technology				
engineer has a wife who understands.		ily	18	60	one to back down from a challenge OCAW's president Robert F. Goss: He's	Nov	21	60	add life to the market?	July	25	42	2
Dutch Boy, Inc.'s coatings group presi dent and general manager Michael J					set for tough challenges in 1980s	Dec	19	96	coatings	Nov	21	22	2
Burns: They were sure he would hang	9				Olin's Chemicals Group president Ray				MarketingIMS-PRI search brings inven-				
out his shingle		aly	4	60	R. Irani: He took the fast track to the top of Olin chemicals	Mar	21	50	tors and marketers together Marone, Alfred P., Witco Chemical's	July	11	41	1
Eastman Chemical Products, Inc.'s presi dent Decatur B. Campbell, Jr.: He's al					Owens-Illinois' William F. Niehous held	iviai		00	Organics Div. corporate vice-president				
ways thought of himself as a chemist.	. A	ug	22	48	for more than three years by leftist				and general manager: He took the long				
Eastman's Toy F. Reid: His Forecast at Eastman—a 'good year' for 1979		une	6	48	guerrillas in the Venezuelan jungle, is back on the job	Sept	26	19	way around to reach the top Martin, David, finance director of Dupe-	Арг	18	48	5
Energy Crisis: companies take steps to		JITE	0	40	PPG Industries: chairman and chief	oope	20	10	rial: Duperial's Martin is on guard				
help employees cope with the energy	1				executive officer L. Stanton Williams:				against inflation	May	23	48	3
Engelhard Minerals & Chemical manage	. JI	uly	18	36	He expects no big changes now that he's on top	Mar	7	52	Massachusetts General Hospital - DES can- cer risk may be lower than thought	Mar	21	2!	5
ment changes: Kaplan, Mark N. resign:	\$				Petro-Tex Chemical Corp.'s Harry E.				car risk may so totto stan thought in				
as president, Rosenthal takes on addi					O'Connell, president: Former track star closes in on butylenes market	Feb	14	47	Massachusetts Institute of Technology				
tional duites of president; other changes	S	ept	26	64	Product responsibility programs: com-	1.60	14	4, .	Bacterial fermentation for ethanol		8	4	2
Environmental regulations: will rule	-	-p-c		-	panies track chemicals from produc-				Computer model predicts effect of vari- ous factors on deep-sea mining N	lan	10	3	A
makers give smaller firms an edge?		ug	8	26	Recruiting firms report: Economic un-	July	4	53	Corporate aid to eduction	May		6	
Executive compensation: highest-paid officers of U.S. chemical companies					certainties may slow growing demand				Lincoln Laboratory: Nitrogen fertilizer				
SEC disclosure rules require con	-				for executives in 1979	Jan	10	32	produced by solar power N OTA study will look at applied genetics.		14	3	
spicuous display of executive pay details (table)	V A	pr	25	56	on current executive demand	July	18	36	Physicist Coppi touts compact reactor		1.7	-	
Executive hiring: Korn/Ferry Interna	- "	ilos	10	50	Reflections on the Great Depression-				for quick jump on nuclear fusion N		17	2	8
tional report F	R A	pr	4	26	Six views	Oct	24	47	Probstein study says water needs do not limit potential for synthetic fuel N		17	2	7
Firestone Tire & Rubber, URW sign no strike pledge	F	eb	21	21	Relocation: grappling with the high cost of relocation	Nov	14	80		-		_	
Forecasting: Despite SEC's urging, com	-				Relocation of corporate headquarters:				Medical College of Virginia				
panies are still wary about forecasting		une	20	39	Decision whether to move headquarters takes "much soul-searching"	Aug	1	37	Insulin-producing living cells are encap- sulated for the first time N	Apr	4	3	7
Foreign-owned firms looking at U.S image	. N	lay	30	65	Retirement: Early retirements are still a				Live-cell inplants: encapsulated pancreas			_	
Freeport Minerals Co. diversification	n				growing trend	Jan	17	34	cells may help in treating diabetes	Apr	25	5	3
program: company now holds a "ful house of profitable businesses		lay	23	17	Retirement: Study says most want to keep working, personnel managers are				Medical Developments				
GAF's Dalton, P.B. resigns; Dr. Jessi	8	luy	20		skeptical	Mar	28	32	Australians show silicon nitride works as				
Werner becomes president F	3	uly	25	24	Rhone-Poulenc Inc.'s president D. George Harris: He's French firm's American				bone and joint implant		t 26	6	.9
Goodrich, B.F.: Ong to replace Thoma as Goodrich chairman		une	27	24	connection	Jan	3	45	adhesives	. Aug	29	5	
Grace, W. R. considering possibility of	d .			3	SCM wages fight for its corporate life				Enzymes speed blood testing Medical Records—Johns-Manville's Wau	. Mar	28	4	10
splitting up operations into a numbe of publicly held companies		oct	10	18	with dissident shareholders	Oct	17	25	kegan, III., workers strike over medica				
Grace, W.R. & Co.: will Grace becom-	6				directors of 90 of the top 100 U.S.				issues	. Apr	4	2	22
a company divided?)ec	12	42	industrial companies R	Aug	29	49 31	International Chemical Workers Unior gains access to member's medica				
Grace, W.R. & Co.'s Agricultural Chemicals Group E. Harold Culp, deput	I-				Sales costs: SACI survey	Mar	40	31	records		18	3	33
group executive: This fertilizer exe					Henderson: For his 30th anniversary								
works farmer's hours	. 0	ct	17	96	he got top spot	Oct	31	52	Melamine American Cyanamid expanding ure				
Group head, Jack Rimmer: He aims t					managing director Chihiro Kanagawa:				melamine plant at Wallingford, ConnF	l Jan	3	2	21
make his big group bigger	. 3	lan	10	52	He says U.S. is best place for investing				Melamine Chemicals' expansion a		8 0		22
Gulf + Western says stock purchases of Sherwin-Williams and Uniroyal ar	of				Sohio's Betty Del Duca, manager of	Mar	14	52	Donaldsonville, La F Monsanto to boost urea-melamine ca	Aug	8 9		2
strictly for investment		Лаг	21	45	international crude-oil supplies: She's				pacity at Springfield, Mass F	R Mai			26
Halcon International's president an	d				a Ph.D. chemist with lots of curiosity .	Jan	17	48	Prices	N Apr	11	2	29
chief executive officer Robert Malpar Ex-rugby star wants to be when	5:				"Street-smart' execs in demand	Dec	5	87	Membranes				
action is		lan	31	52	Koichi Fukami: He'll push for profits				Diamond Shamrock licenses Continuou				
Henkel Corp.'s president Donald V					from pesticide products	May	9	49	Curve Contact Lenses to use a modifi- cation of its membrane technology fo				
Carlson: Short-wave enthusiast tune in on big markets	95	Sept	19	60	TVA's Chairman S. David Freeman: He aims to clean up 'garbage can' of				coating soft lenses	. Oct	1 3		38
Hercules establishes advisory council.	N S	Sept	26	13	wastes	Aug	15	48	Du Pont's Nafion membrane for chrom	e			42
Hercules a year ahead on earnings goa —Giacco tells security analysts		Dec	g	24	Trademark policing: firms strive to keep well-known trademarks out of com-				recycling process	N Mar	y 16		43
Hooker plans public relations campaid	an	Dec	5	49	mon usage	Aug	15	45	Far East threaten U.S. markets	. No	v 14		49
to boost sagging image		June		18	Union members on U.S. company boards	:			Manney				
Hooker tells its side of the story ICI Americas' new president, Robe		June	27	34	no rush to give labor a director's seat. Union Carbide restructures Chemical	. Dec	19	87	Mercury Japanese executives sentenced for po	1-			
P. Barnett	1	Nov	21	18	and Plastics group	. Dec	19	21	luting	. Ap	r 4	1	23
Instituto G. Donegani S.P.A.'s chairms	an				Union Carbide's Sneath and Anderson				Olin asks for a change of venue in me		w 2		18
Ezio Colombo: He aims to cash in o Montedison's technology	1	May	2	72	at meeting of security analysts in N.Y lay out company strategy through				Olin's mercury trial delayed by advers	10	,		
Insurance: self-insurance rising as liab	bi-	-			1983 and explain reassignment of	f			publicity	. Ma	y 16		24
lity coverage becomes costlier, hard to obtain (chart)		Oct	3	40	key officers	. Sep	t 19	49	Mercury measurements debated a Olin trial		9 8	3	20
Integrated lab and office data system	ms				Calarco: He made a quick trip to th	0			Olin mercury trial nears close in Ne	W	-		00
save researchers time, money (chart)		Oct	10	47	top		ot 26	72	York	. Au	g 22		20

								1			
Olin plans appeal	Aug Sept	29	49 20	EPA suspending ban	June	6	21	EEC plans aid for mineral producers . N FMC's trona technique sparks major	Feb	21	48
WHO studies exposure levels for heavy metals	June		36	of MMT	June	13	21	development program at Green River, Wyo	Dec	12	17
Merszei, Zoltan resigns as Dow chairman . There wasn't room at the top for two	Feb Feb		33 29	Methyl Ketone (MEK) ARCO slates major MEK project at				Gulf Research will gasify coal in steep seams	Sept	19	43
Former Dow Chairman, named vice-				Channelview, Tex N	Oct		13	Strip-mining bill is "poorly suited" to non-coal mining says NRC report N	Dec	5	65
chairman of Occidental	Apr		22	Prices N	Dec	12	32	White House report on nonfuel minerals			
of Hooker Chemical	May	30	18 17	Methyl Methacrylate Asahi Chemical looks at new process				policy gets bad reviews	Oct	3	23
	riug			for making methacrylates N Borg-Warner Chemicals methyl meth-	Dec	5	65	Mixing—Mixing machines: Chem Show exhibitors	Nov	14	70
Metals Chemical Week 300—report, Homer G.				acrylate butadiene styrene resins plant onstream at Grangemouth, Scotland .N	June	13	40		1404	14	70
Starr (tables) Feb 28-42, Apr 25-40, May 30-51, Aug 29 38	Nov	21	38	Methyl Tertiary Butyl Ether (MTBE)	June	13	40	Models Computer model predicts effect of			
High-performance metals: Chem Show	Nov		67	Air Products will market Suntech's				various factors on deep-sea mining . No "The stately homes of England" in	Jan	10	34
exhibitors	1400	14	0,	MTBE technology N Capacity: more capacity planned and	Mar	21	38	miniature, replicas done in acrylic modeling clay	C	10	
plan will emphasize mineral output growth N	Jan	17	32	onstream N Demand will keep pressure on methanol	Oct	17	69		Sept	13	55
Nonferrous metal chemicals prices N Feb 21-30 N	Aug	15	35	availability N	Nov	7	28	Molybdenum Amax's Mount Emmons, Colo. moly			
WHO studies exposure levels for heavy				EPA denies Petro-Tex Chemical applica- tion, but keeps open mind on MTBE	Jan	3	17	project faces uphill fight: Amax hopes to show mining and skiing can co-			
metalsN Methacrylic Acid-Pennsylvania checking	June		36	MTBE gets green light	Mar	7	18	exist	Aug		33
out dumping site near Chester	Feb	21	25	make MTBE and butene-1 N New capacity under construction N	Aug		43 55	Markets tighten (table)	Mar	7	30
Methane California methane-from-waste projects				-Correction	June		23	Acrylic monomer prices N	June	20	32
	Apr	18	30	Octane pinch: Suppliers are readying new gasoline additives for use when				Rohm and Haas plans expansion of pro- pylene-based acrylate monomer plant			
FERC decontrols 'high-cost' gas sources N	Nov	14	18	lead is phased down (chart)	Apr	11	43	in Houston, Tex R	June	27	27
New Jersey's Public Service E&G to tap meadowlands waste dump for				Apr 11-43, N May 30-55, N Oct 17-69 R	Oct	24	24	Styrene: Hoechst capital spending aimed at styrene, HDPE plants N	May	9	13
methane N	Apr	18	30	Methylamines-Air Products and Chemi- cals to boost capacity at Pace, Fla.				Styrene monomer prices N Mar 7-31, N Mar 14-24N	May	9	23
Westinghouse demonstrating feasibility of getting methane from unmined coal				plant	Jan	3	21	Styrene monomers: production up N	Aug		33
beds at coal mine at Waltz Mill, Pa N	July	4	39	in doubt; regulations may force pro- cessors to change cast-urethane special-				VAM: exports	Mar		32
Methane Diisocyanate Mobay Chemical will boost MDI ca-				ties	June	13	48	VCM: Asian PVC producers plan VCM- buying cooperative N	Feb	28	51
pacity again in Bayport, Tex N	Mar		13	Methylene Chloride				VCM: CPSC study supports single-dose thesis on cancer risk	May	2	21
Rubicon ups capacity N MDI paint at Geismar, La. planned . N	Jan June		37 17	EPA exceeded authority in dropping methyl chloroform and methylene				VCM: Diamond Shamrock to expand			
Contract for MDI unit R	Aug	15	24	chloride from an exempt list suit charges		4	25	VCM: Formosa Plastics to invest in	Oct	10	13
Methanol Alberta Gas to double capacity of				New York seeks to surb solvents in		4	24	Texas plants N VCM: PVC plants are meeting EPA	July	11	13
methanol plant at Medicine Hat despite				groundwater	Арг	4		standards-but losing production ca-	9.0	20	36
adverse U.S. ruling N Allemania Chemical awards contract to	Aug	8	25	Disocyanate Metric System-Will metrication yield a				VCM: prices N Feb 28-28, N Sept	Мэг	20	30
boost capacity of Plaquemine, La., methanol facility	Oct	3	25	payoff?	Apr	11	24	19-35 N VCM: suspect in OSHA, NIOSH study	Sept	26	46
BASF will pilot process to make ethy-				Mexico Dow contract for crude oil from Mexico's				brain-tumor deaths at UC facility NIOSH finds more brain cancer among		28	22
lene and propylene from methanol . N Brazil: ethanol-methanol debate	Aug		27 49	Pernex N	Mar	28	17	chemical workers at UC and Mon-			
Brazil proposes giant methanol pro- gramN	Feb	28	51	Foreign forecast: On balance, 1979 could be a pretty good year-report				santo Texas plants	Mar	14	19
Brazilians push plans to manufacture methanol from eucalyptus trees			38	(charts & table)	Jan	24	23	husbands' deaths from brain tumors.R Five more tumor cases found at		25	25
Canada: Celanese Canada studying	IVIAI	14	30	near Tampico N Natural gas: Carter's Mexico visit stirs	Nov	28	42	Carbide	Aug		
methanol plant at Edmonton opera- tion	Oct	10	28	hope for natural gas agreement	Feb		19	VCM: Worldwide activity N Montanari, Fred W., president of NL		11	54
Catalysts and Chemicals Europe process to make hydrogen by steam reforming				Oil and gas reserves N Oil deal with France N	Mar		39	Chemicals: Computers helped him to move up		11	48
methanol N	Oct	31	40	Oil spill: Exxon dispersants used to clean up Mexican spill	Aug	29	25	Moran, Thomas Maurice, president of			-10
Converting coal to synthesis gas and methanol — Pittsburgh conference				Pernex will add two acrylonitrile plants.N	Nov	14	76	Charter International Oil Co.: He learned to be cool under fire	Aug		
Du Pont methanol plant at Deer Park,	Aug	8	34	Petrochemical buildup is well under way (table)	Jun	e 27	38	Morocco—Sulfur shortage N Morpholine—BASF Wyandotte plans com-	Feb	28	51
Texas	Aug Aug		25 29	Petrochemical output is lagging N Tax breaks added to investment incen-		t 12	41	plex at Geismar, La	Nov	14	42
Getty studies methanol plant at Dela-				tives N U.S. transmission companies planning to		21	28	can Cyanamid's Bound Brook, N.J.,		. 10	20
ware City, Del., refinery N Haldor Topsoe adds to U.S. staff for		19	17	import natural gas from *flexico will				Cancer study due		19	26
ammonia and methanol business N Hercofina to sell Plaquemine, La.	Nov	14	51	face competition from others N Michigan State University	Aug	1	9	points to new methods to make flavors and fragrances	Oct	3	46
plantR Hydrogen generators based on methanol	May	31	21 42	Dow's R&D contacts	Feb	21	38				
Japan-Saudi methanol unit gets new				Rapid tree-growing may make forests major source of CPI products		31	46	N			
investors N Methanol to stay tight through 1980. N		21	28 28	South Africa policy: Dow at odds with Michigan State	1	17	34	Nahcolite-Nahcolite will be tested for			
Mobil shows how ZSM-5 family of zeolite catalysts make gasoline from				University will accept Dow's contribu-				sulfur removal in coal-fired power plantN		21	40
big molecules N	Oct	10	42	tions	. Mai	7 28	27 5	Nail Polish-Nail polish business: new		31	40
Mobil Oil's methanol-to-gasoline process to get \$28 million from U.S., West				Microbiocides-Cooling-tower additive, Ty- Ion A-35, kills the bacteria that cause				ingredients give boost to \$150-million/ year business	Aug	8 8	41
Germany N New Zealand: BP proposes plant N	Nov	17	14	Legionnaires' disease R	l July	y 25	45	-Correction	Sep	12	53
New Zealand picks Mobil process to make gasoline from gas-derived				Microencapsulation				Naphtha Calvin at ACS meeting reports of rare			
methanol N	Nov	28	34	Insulin-producing living cells are encap sulated for the first time N	Apr	4	37	trees that can directly yield fuel oil			
Prices N Mar 14 24, N Aug 8-23, N Sept 12-36	Dec	12	32	Live-cell inplants: encapsulated pancreas cells may help in treating diabetes	5	25	53	and naphtha for chemical feedstocks	July	t 19	
Prices rise again in Eruope N Shortages foreseen by 1990 in Europe	Sep	t 26	53	Microprocessors-Tiny components = big	3			China sells naphtha to Japanese chemi- cal firms N			53
U.S. and Japan N Single-cell protein process: Linde says	Jun	e 13	40	markets (table)		21	15	ICI to boost prices of petrochemical		-	
using oxygen instead of air raises	1			new system to "fingerprint" airborne particulates from industrial stacks N	Jun	ne 6	35	products to offset naphtha costs N India: naphtha supplies piling up N	Dec		
single-cell protein yield Stanford U's Marsden suggests con-	. Aug	g 1	28	Microwaves—Goodyear uses microwaves to devulcanize rubber	8	y 23	35	Iran's turmoil shakes world chemical markets (table)	Feb	21	19
verting Prudhoe Bay gas to methano cheaper than building pipeline N	Oct	3	43	Middle East see individual countries		y 23	30	Japanese petrochemical makers seek direct imports of naphtha N		. 7	24
Methionine	000		40	Miller, Bob, vice-president of Uniroyal: The ivory tower is not his habitat	. Sep	nt 5	83	Approval for naphtha imports N	Feb		
Asian animal-feed industry F	No.	v 21	22					Japan's CPI signs up for low-priced naphtha	Man	y 30	27
Monsanto plans plant at Chocolate Bayou, Tex. to produce synthetic	0			Mining Amax's Mount Emmons, Colo. moh				Naphtha: it's a question of price, not supply (chart & table)	Mar	, 7	15
methionine feed additive	i Dec	19	17	project faces uphill fight: Amax hope to show mining and skiing can co				Prices N May 23-30 N	Aug		36
thority in dropping methyl chloroform and methylene chloride from an exemp	3			exist	. Au	g 15	33	Prices rise sharply in Europe N Feb	July		
list suit charges	. Apr	r 4	25	takeover offer for BH South Ltd P	V Oct	t 3	31	Shortages discussed at AIChE meeting Union Carbide seeks boost in entitle-		r 11	42
MMT (methyl cyclopentadienyl manga	-			Brazil: France backs potash mining project	V Oct		69	ments it gets for using imported	1	v 7	7 14
nese tricarbonyi) DOE asks EPA to ease gasoline additive				Chile: boon for mining chemicals Dow contract to Fluor Mining & Metal	s		59	nephtha National Agricultural Chemicals Assn.— Annual meeting: Pesticides flourish on			
rules including lifting of ban on MMT		21	22	to study surface mining of lignite I	R Fel	b 14	18	farm prosperity	Oct	t 10	35

National Assn. of Recycling Industries— ICC ceiling on rail rates for recyclables				Mexico: U.S. transmission companies planning to import natural gas from				New Zealand BP proposes methanol plant N	Oct	17	69	
appealed N Challenging ICC freight rates for	Apr	25	18	Mexico will face competition from others	Aug	1	9	Mobil proposes gasoline from natural gas project for New Zealand N		11	25	
recyclables	June	6	38	Mobil proposes gasoline from natural	July		25 .	More details N Picks Mobil process to make gasoline		18	42	
National Audubon Society — Peterson, Russell W. leaves OTA for Audubon				gas project for New Zealand N More details N	July		42	from gas-derived methanol N	Nov	28	34	
National Boat Show—High-strength fibers	Mar	7	21	NGL: DOE alleges National Distillers overcharged for natural gas liquids . N	June	20	18	Newsprint — Hitachi Zosan mechanical pulping process to make newsprint from				
find niche in boats	Jan	24	15	NGL: DOE says \$625 million over-				bagasse is available N Niacin-Lummus process makes niacin	Aug	1	27	
for new cancer-group director to succeed	Dec	10	24	charged for NGL			19 21	and niacinamide from a single feedstock using the same equipment (flowsheet)	Aug	22	38	
National Cancer Institute. Bioassay testing	Clec	18	24	Offshore Exxon proded by Interior to speed				Nickel-Coins: Susan B. Anthony "silver"			40	
program, Cancer studies see Cancer National Forest Products Assn.—Justice				up Santa Barbara oil, gas project N FERC may let Ampro ammonia plant	Aug	1	10	dollars	June	21	40	
will get tough with polluters	June	20	27	use offshore gas	July	11	21	niacin and niacinamide from a single feedstock using the same equipment				
National Institute for Occupational Safety				Tenneco finds gas in the Baltimore Canyon		30	19	(flowsheet)	Aug	22	38	
and Health OSHA and NIOSH may be patching up				Tenneco goes ahead	June	13	21	by Indian firm N Nitrites—FDA will ask Congress for	Sept	5	69	
OSHA's John R. Froines to become	May	2	14	brightens; Royal Dutch/Shell Group and Northern Natural Gas executives				nitrite phaseout	Apr	4	21	
deputy directorN Offers free emission-control help	Feb Jan	7 31	14	tell N.Y. financial analysts	Oct	3	21	Nitrobenzene—Texas waste-disposal firms probed by Congress	May	23	18	
NIOSH see also Labor -NIOSH; Safety-	Jan	31	40	Pipeline in Mexico points to U.S. gas sales	Mar	7	33	Texas sues Browning-Ferris Industries over toxic waste spread on roads	June	6	19	
NIOSH National Institute of Health—GAO will				Pipelines: DOT seeking greater control . Plant sites 1980—report. John M.	Feb	14	14	Eckhardt questions BFI on disposal				
survey NIH's peer-review system for handing out grantsN	Oct	10	14	Winton How industrial power costs, charges				Nitrocellulose—Nail polish business: new	June	21	23	
National Paint and Coatings Assn	Out	10	14	for coal, oil and gas and reserves				ingredients give boost to \$150-million/ year business	Aug	8	41	
Annual meeting: Pressure is on petro- chemicals for coatings	Nov	7	40	compare (table)	Dec	5	78	4-nitrodiphenylamine—Monsanto 4-NDPA		-		
Blatianal Patroloum Ballinau Aug				Carter weighs decontrol of oil and gas prices	Mar	28	21	reactor at W.G. Krummrich plant in Sauget, III.: blast won't disrupt supplies ,	Aug	8	19	
National Petroleum Refiners Assn. International Petrochemical Conference:				DOE won't control new discovery				Nitrogen				
Chemicals and gasoline compete for aromatics	Apr	18	31	U.S. petrochemical industry under	Jan	10	21	Air Products and Chemicals industrial gas plant in Milwaukee R	Nov	28	28	
1979 fuels and lubricants meeting: Refiners sesk supply-demand answers.	Nov		52	foreign fire as result of price controls on oil and gas	Oct	10	18	Air Products liquid nitrogen plant in				
National Tank Truck Carriers-Contract	1404	140	52	Reserves discussed at AAAS annual meeting		17	29	Santa Clara, Celif. R Feb 21-26 R Energy—related markets will aid nitrogen	May	2	23	
trucking and piggybacking: new trends in trucking shaping up	May	30	60	Rockcor's Astrofrac explosive fracturing	3011		20	demand growth (charts)	July	25 5	34 66	
				gas from shale	Jan	31	37	Fertilizer movement is picking up N	Jan	17	35	
Natural Gas AGA meeting with N.Y. security ana-				Sales contracts at fixed-price levels:	Sept	26	17	Fertilizer produced by solar power N Fertilizer use rebounds (chart)	Aug Feb	14	31	
lysts: gas surplus worries Wall Street analysts	Jan	24	15	Scotland's key gas-separation plant con- struction still in doubt	July	4	48	Liquid nitrogen key to tire-recycling process	July	11	41	
Alaskan pipeline proposed by North- west Alaskan Pipeline Co.: Oilmen		-		Stanford U's Marsden suggests con-	July	4	40	Output gains have slowed down N Union Carbide to build major industrial	May		24	
have hope for natural gas line		29	25	verting Prudhoe Bay gas to methanol cheaper than building pipeline N	Oct	3	43	gases plant at Brownsville, Tex N	Nov	21	13	
Amoco finds natural gas in Utah R Ashland Oil selling oil and gas properties	Mar	21	26	Supreme Court closes loophole that allowed CPI to get more gas from old				World fertilizer study, IFDC, TVA sees tightening markets (chart)	May	16	31	
Jan 10-21, N Feb 7-13, R Feb 7-22, N Feb 14-9	Apr	4	17	wells; holds that fields once dedicated				Nitrogen Dioxide—Standards: Limit under 750 ppm. would impose staggering costs				
Australia: Gas condensate will be				to Interstate Commerce could not later be tapped for the intrastate				on industry	July	4	41	
greater than expected from Australian field N	May	9	40	market	June	27	18	Nitrosamines				
Australian project to develop off shore deposits	Feb	28	53	burgh conference	Aug	8	32	FDA finds nitrosamines in several cosmetics N	Apr	18	14	
Barite benefits from emphasis on oil and			20	industry	Jan	17	22	NSF reports finding suspected carcino- gen in scotch whisky N	Aug	15	14	
gas production (chart & table)	Feb		26	Transco ordered to pay more in damages to FCA and CF Industries	Feb	28	24	Nonylphenol-Prices N	Sept			
soon? (charts)	Oct	17	20	Transcontinental Gas Pipeline Corp. and Algonquin Gas Transmission Co. plan				Norway				
from natural gas, but burning coal is not yet economic	Nov	21	48	pipeline to import Canadian natural gas N	Aug	29	17	Capital spending (table)		21	30	
CPI feat: scrimping on fuel oil	June		20		Hugg		**	Nobel and Norsk Hydro N Norsk Hydro acquires NSM to strengthen	June	20	45	
Chemical Week 300-report. Homer G. Starr (tables) Feb 28-42, Apr 25-42,				Navel Stores Gum workers pay level to be checked				fertilizer position, N	Sept	19	39	
Aug 29-37	Nov	21	38	by Labor Dept	Dec	19	24	Nylon				
pay for economic buildup N DOE aims for better allocation of	Jan	10	39	Conference	May May	9	24	Carpet fibers: Housing slump hasn't hurt carpet fibers (chart)	Nov	21	25	
energy	Mar	7	18	Output turns up sharply N	Dec	5	49	Du Pont introduces mineral-reinforced Zytel, called Minlon 12T N	Apr	18	30	
DOE plans to decontrol natural gaso-	Apr		37	Worldwide rosin market remains tight— outlook from Walter L. Cleaver, Sr.,				Engineering fabrics provide solid support				
line	Apr	18	14	president, PDM Trading, Inc	Oct	3	21	for roads, drainage systems	June			
single well in Trumbell County, O N Drilling: oil-price decontrol will spur	Apr	25	48	Neopentyl Glycol GAF plant at Freeport, Tex R	June	13	22	Monsanto may drop European nylon business N	May	16	17	
drilling, use of oil-field chemicals		10	45	Prices N	Aug		35	Monsanto withdrawing from business.R Nail polish business: new ingredients	July	4	22	
(charts & table)	Apr		15	Netherlands				give boost to \$150-million/year busi-	A		41	
FERC eases the way for industrial use	Nov	14	18	Air Products plans to build its first European chemical plant, N	Dec	5	17	Prices N Apr 4-29 N	Aug	16	30	
of gas N Fill-in for crude: light hydrocarbons	May	23	14	Akzo may trim operations to boost	May	2	60	Shipments	May	9	23	
(charts)	Nov	14	20	profitability N Capital spending (table)	Mar		30	gels N	Feb	14	36	
Fuels and feedstocks outlook: more plentiful fuels, at loftier prices (chart).	Sept	26	16	Foreign forecast: On balance, 1979 could be a pretty good year-report				0				
HNG expecting shortfall, talks with Persian Gulf N	Nov	7	13	(charts & table) Labor: Outlook for labor peace in Euro-	Jan	24	23	Occupational Safety and Market Ad				
Indonesia seeks partners in petrochemi- cals, finds ures plant financing N	July	11	36	pean CPI is bright this year LPG landing facilities approved for	Feb	21	46	Occupational Safety and Health Ad- ministration				
LNG: Beech offers fuel system for	outy	**	30	Rotterdam N	Nov	7	48	Cancer-policy analysis: AIHC critical Cancer policy attacked before it's	Jan	24	13	
operating autos on liquefied natural gas	Nov	28	34	Lowlands CPI tries for new highs N	July	11	34 69	out	Dec	12	18	
LNG: California LNG terminal at Point Conception approval seen R June				Strikes hit petrochemical plants , N Unions are seeking to reduce working	Oct	3	31	policy before middle of next month .N	Dec	19	18	
13-22 LNG: California LNG terminal may be	July	18	25	hours: International Federation of Chemical, Energy and General Workers				Froines, John R. leaves to become deputy director of NIOSH N	Feb	7	14	
ready by 1983 N	Nov	7	47	Unions Levinson backs drive N	Apr	11	54	Interagency Regulatory Liaison Group see under name				
LNG: DOT proposes new rules for storage	Feb	14	14	UKF's Geleen plant explosion tightens ammonia market	July	25	36	Is there a workplace cancer epidemic? OSHA seminar hears both sides		t 26	44	
LNG: Japanese utilities bid for output from Malaysia's Bintulu LNG project .N	June	6	30	U.SNetherlands agreement on co- operative work in magnetohydrody-				-Correction	Oct			
LNG: Petro-Canada plans LNG plant in the arctic	May		21	namics N	Dec	12	50	OSHA and NIOSH may be patching up differences N	May	, 2	2 14	
LNG to be imported from Trinidad by				Wage settlements are high N New Jersey Institute of Technology—		12	42	Regulatory Council's calendar: chemical industry ranks sixth				
Tenneco	Mar	21	26	Researchers seek acrylics that bond to teeth	Feb	14	35	Regulatory Council's docket of proposed				
cals: South China Sea gas is key to development (map)	Dec	5	52	New Mexico State University-Solar flat- panel photovoltaic power system to				1980 rule-making actions				
Mexico: Carter's visit stirs hope for			19	supply 17.5 kw. of electricity to an				health standards chief	Aug	15	5 21	
natural gas agreement	Feb Jan	28 10	39	Fi Paso, Tex., power plant gets funds from DOE N	June	e 27	31	standards programs: He's not one to back down from a challenge)	y 21	1 60	
										-		

Wrenn, Grover C. named to direct				Donley, Edward: Business and govern-				Cogeneration project in Green Bay, Wis.			
OSHA's federal and state compliance	Mar :	20	10	ment: an alliance for growth Farbstein, Stanley B.: DOE's fuel rules—	July	18	5	hits snags	Aug	15 1	19
OSHA see also Labor-OSHA	ryear .	20	10	costly, wasteful, complex	Feb	7	5	pansion at Wauna, Ore N	Nov :	21 1	13
Onnan Engrav				Handler, Philip on cancer: 'There is no epidemic'	Sept	5	5	EPA's proposal on PSDs 'turn new- source review on its head', paper-			
Ocean Energy Food, energy and protein by taking				Public policy must rest on sound				makers concerned over air-pollution			
advantage of temperature differences		21	26	Hanley, John W.: Energy, ingenuity and	Sept	12	5	control law's limitations on industrial	Dec	12	52
in the sea	Mar	21	36	those instant experts	Dec	12	5	expansion	Dec	12 :	34
ocean's heat energy into electricity . N	Sept	12	48	Harbison, Earl H. Jr.: Image is a prob-				board complex at Mansfield, La N	Mar :	21	17
Novel technique to recover energy from water	Dec	5	67	lem, but there is still time to act Jellinek, Steven D: Jellinek chides pes-	June	6	5	Lumber companies are accelerating their buildup in pulp and paper (charts &			
Ocean exploration and mining see Under-	500			ticide makers on poor citizenship	Nov	21	5	table)	Aug	1	13
water Mining O'Connell, Harry E. president of Petro-				Jellinek: Pesticide makers win a	Nov	28	5	Maine Indians unhappy with paper firms' land offer	Mar	14	10
Tex Chemical Corp.: Former track star				Pyrrhic victory				Mead Corp's Escanaba, Mich., paper			
closes in on butylenes market	Feb	14	47	pians: their hidden agenda'	Aug	8	5	complex expansion planned N Mead Corp. expands Chillicothe fa-	Nov	14	17
Odor Control—Carpet freshener sales are cleaning up	Nov	28	46		Aug	15	5	cilityN	May	2	13
				Oreffice, Paul: Do we really need a	Oct	21	5	Nigerian pulp and paper mill to be	Cant	6	69
Office of Technology Assessment Gibbons, John to be new executive				chemical industry? Shapiro, Irving S.: The media are in	Oct	31	9	built by Indian firm N Owens-Illinois plans corrugated shipping	Sept	5	00
director N	May	2	53	the castle to stay'	Oct	17	5	container plant at Tracy, Calif R	Feb	28	24
Long-term objectives list set up N Peterson, Russell W. leaves OTA for	Jan	24	10	Simon, William E.: American business: a beleaguered enterprise	Apr	4	5	Potlach plans building-board plant in Minnesota	Feb	28	24
Audubon Society	Mar	7	21	Wallander, Jan: Budgets and forecasts:				Wallcoverings market	Mar		45
				necessary evils	Oct	3	5	Westvaco resumes operations at Luke, Md. and Covington, Va. mills following			
Oil-field Chemicals Houston, Colin A. at CMRA meeting	Feb	21	40	Winnacker, Karl and Karl Wirtz: Nuclear energy: How great is the risk?	June	27	5	ratification of labor contract R	Feb	14	18
Lignin sulfonates, wood chemicals, in-				Wismer Marco: Let's reason together		**		Weyerhaeuser settlement ends Coast		10	23
ject new life into tired oil wells Oil and gr fuel barite boom (chart &	June	20	65	and simplify PMN*	May	16	5	paper strikes	May	10	23
table)	Feb		26	Burke (charts & tables) Part II: Chemi-				at Columbus, Miss. site N	June	27	17
Oil-field specialty chemicals bnom N Oil-price decontrol will spur drilling.	Feb	14	30	cals-Oxidation	Apr	4	54	Paper see also Pulp & Paper			
use of oil-field chemicals (charts &				hyde portion of exo-chemicals complex				Para-Xylene			
table)	Apr	18	15	at Bay City, Tex. completed R	Oct	17	28	Caribe Isoprene's Puerto Rican units hit	Dec	10	04
Tertiary oil recovery using lignosul- fonates N	May	30	55	Oxygen				by explosion and fire	Aug		21 33
Oil shale see Shale Oil	wwy	00	00	Air Liquide plant at Brunswick lead							
				Air Products and Chemicals industrial	Mar	21	28	ACS asks government to set national			
Oils & Fats Calvin at ACS meeting reports of rare				gas plant in Milwaukee R	Nov	28	28	policy for innovation N	Oct	24	14
trees that can directly yield fuel oil				Single-cell protein process: Linde says				Ametek, Inc. files for patents on thin-			
and naphtha for chemical feedstocks.	Sept	19	44	using oxygen instead of air raises single-cell protein yield	Aug	1	28	film semiconductor materials that can be used to make low-cost photovoltaic			
Jojoba plant may become a source of cosmetics, pharmaceuticals, lubricants				Union Carbide to build major industrial				solar cells	Nov	7	47
and surfactants	Feb	7	31	gases plant at Brownsville, Tex N	Nov	21	13	Ammonia plant builders settle patent dispute	Sept	19	26
Mobil shows how ZSM-5 family of zeolite catalysts make gasoline from				Gzone				Canada patent law sparks drug contro-	dept		
big molecules N	Oct	10	42	HAOS study proves EPA's ozone standard "should be re-examined"	Aug	1	18	versy: Novopharm applies for license for ulcer-drug similar to SmithKline's			
Witco to expand white oil capacity at Petrolia, Pa	May	2	23	New study challenges EPA's ozone	rug		10	Tagamet	Oct	10	51
retrona, ra	ividy	-	23	policy	Aug	15	36	Carter's plans for innovation: mixed		-	FA
Olefina				NAS report on ozone will not lead to immediate action by EPA R	Nov	14	42	reaction	Nov	7	54
Ampacet's Weil talks olefin prices, new products	June	20	42	NASA study says SST flights, fertilizers				infringement R	July	18	27
BASF will pilot process to make ethylene	04110			may enhance ozone layer N NRC committee calls for more research	Jan	10	33	Lilly granted injunction against Premo and Federal in patent case R	July	26	24
and propylene from methanol N Derivative prices up N	Aug	1	27 32	on water disinfectants' effects N	June	20	56	Du Pont charges ICI with patent in-	July	20	4
Exxon starts up big olefins unit at	Dec	12	32	Ozone debate see also Fluorocarbons-				fringement of polyester patents R	July	4	22
Baytown N	Dec	5	49	Fluorocarbon controversy				Industry seeks university R&D contacts, but patent issue is barrier	Feb	21	38
Goodrich's Chemical Group discon- tinuing sales of Telcar thermoplastic				D				Insulin: Eli Lilly agrees to give royalty-			
olefins R	Dec	5	43					free licenses on insulin patents and associated know-how		26	18
Gulf to increase NAO output at Cedar Bayou, Tex	Nov	28	17	Packaging				Life-form patent case to be heard by			
Prices N Jan 17-35 N	June	6	26	Air-bubble technology in insulation applications	June	e 20	41	Supreme Court	Nov	7	20
Production up N Texaco brings light olefins unit onstream	Aug	29	33	Chemical Week 300-report, Homer G.				that lab-created life forms can be			
at Port Arthur, Tex	Jan	10	21	Starr (tables) Feb 28-40, Apr 25-33, May 30-48, Aug 29-38	Nov	21	35	patented N	Apr	11	18
USS Chemicals' olefins plant in Houston				Cosmo Expo topic	May		50	Patent protests aimed at Hungarian traders	Aug	1	.18
will provide company with needed feedstocks	Nov	28	52	Detergent packaging hit in consumer poll as toughest packages to open		24	51				
Wallcoverings market	Mar		45	Grace completely out of packaged foods		24	31	Pavement Epoxy-based pavement marking being			
Ophthamology-SmithKline set for big entry to eye-care field with acquisition				business with sale of Barilla S.p.A. to				tested N	Sept	19	43
of Allergan Pharmaceuticals	Dec	19	22	Finbarilla S.p.A N Grace expanding flexible packaging	Aug	8	13	Sulfur-based road-paving material, dubbed			
Oreffice, Paul, Dow's chief executive: There wasn't room at the top for two	Feb	21	29	materials plants R	July	11	22	Sulphlex, could replace asphalt N Feb 7-36		15	18
There wasn't room at the top for two	rep	21	29	Hexagonal corrugated-board drums gain foothold in chemical markets		10	29	Pelletizing-Lignite: tests show way to			
Organic Chemicals	Mar	20	20	Labeling see Labeling				make more efficient use of lignite N	Aug	22	36
Dibasic organic prices N EPA will give high priority to emissions	war	28	28	Puncture-resistant bag	Jun	e 20	42	Pennsylvania State University			
standards for organic-chemical plants N	Aug	29	43	Paint				Corporate aid to education	May	2	64
India's CPI is stalled by political crisis (tables)	Sant	19	36	Chemical Week 300-report, Homer G.				Earthquake warning for chemical plants	1		20
Oil and chemicals. Era of peaceful	Jebi		50	Starr (tables) Feb 28-39, Apr 25-33 May 30-48, Aug 29-36	Nos	21	42	Glass and ceramic waste forms	. May	9	34
co-existence? - report. Meyer Lurie	0-4	17	70	Du Pont's Certified Painting System	1			Keith, A.D. develops procedure that	1		-
Oil companies' share of chemical	Oct	17	70	(CPS), program for Duco line of house paints includes a full warranty	Aut	1	36	shows how drugs affect cells N Researcher Engel develops algae-to-oil	Jen	17	27
production capacities	Oct	17	74	Envirosol System for do-it-yourself	1		30	process using hydrogen	. July	18	43
Output gain is slowing down-ITC report N	Aug	1	20	paints and varnishes: New coatings				Pens-Erasable ink to be offered in		21	49
Petrochemical production increases but			-	work like solvent systems, but clear up with water		y 16	42	Gillette's Eraser Mate Pen		31	43
some major product categories have been 'on allocation' (chart)		31	15	Epoxy-based pavement marking being	1			method of synthesizing 15-pentadecano			
Prices N	June	e 13	36	Marine coatings: will new technology		t 19	43	lide will be commercialized: new route to musk ingredient	. Oct	3	46
Product prices can't quite catch up		15	16	add life to the market?	. July	y 25	42	Pentaerythritol—Prices N	I Juni	a 27	29
(charts)	Oct	3	37	National Paint and Coatings Assn. annua meeting: Pressure is on petrochemicals	1			Peracetic Acid-Union Carbide hopes to repair peracetic acid unit at Taft, La)		
Production stays at high levels N	Juni	e 27	29	for coatings	. No	v 7	40	by August N	I Apr	11	17
Supply bind will keep upward pressure on organic prices; capacity for most				Vista Associates' Levine discusses paint	t			Production resumes at Taft, La		- 22	22
major organics is ample (table)	Mar	28	29	and coatings industry at CMRA meeting		21	40	plant			23 39
Synthetic organics post 1978 output, sales gains-U.S. International Trade				Palladium—GM gears up for shift to riche	r						
Commission report	Nov	14	25	catalyst	. Ma	y 16	44	Perfumes Bayer's Haarmann & Reimer after mon			
Orthochlorophenol—Spill from derailed				Paper				of U.S. market	. Jun	e 20	42
train in Sturgeon, Mo.: Dioxin is found in cleanup workers' blood		23	22	American Paper Institute annual meeting				Gas chromatograph will purify perfume			25
Suits boost claims for dioxin-spill				Growth trends in paper capacity (table)	. Ma	r 21	22	flavor chemicals on plant scale N —Correction		e 6	35 56
damage	July	25	21	API told Justice will get tough with	h			Haarmann & Reimer symposium point	S		
Other Views				Chemical Week 300-report, Homer G	. Jur	ne 20	27	to new methods to make flavors and fragrances		3	46
Cohn, Ernst M.: A SWEET story about		40		Starr (tables) Feb 28-40, Apr 25-41			OF.	Marketing seminar traces links between	7		
some valuable ASSETS	Jan	10	5	May 30-48, Aug 29-38	. No	v 21	35	scents and sex	. Sep	n 12	53

				to the test test as an arrive service				Dallies all sales decreased with same			
Swiss market for personal-care pro-	Jan	24	44	Japan's chemical industry makes come- back: tighter belts fatten Japanese				Drilling: oil-price decontrol will spur drilling, use of oil-field chemicals			
Perfumes see also Fragrances	Jan	24	**	CPI's profits (charts & tables)	Sept	26	54	(charts & table)	Apr	18	15
Peroxides-Organic peroxide prices N	Dec	19	69	Japanese output climbs N	Jan	31	31	Feedstocks see Petrochemicals			
Peroxydicarbonate Initiators—PPG Indus-	June	27	27	Japanese petrochemical makers seek direct imports of naphtha N	Feb	7	24	Fill-in for crude: light hydrocarbons (charts)	Nov	14	20
tries plant planned	June	21	41	Approval of naphtha imports N	Feb		48	France makes new deals to get addi-	1404		2.0
personal-care products	Jan	24	44	Libyan complex: progress on chlor-				tional oil N	Mar	7	33
Persuitates—Price Tixing suit: consent	Ent	20	18	alkali units	Jan	10	40	Fuels and feedstocks outlook: more plentiful fuels, at loftier prices (chart).	Sept	26	16
Peru-South America: set for growth?	Feb	28	10	cals: South China Sea gas is key to				GAO advises look for oil, don't build	Sept	20	10
(tables)	May	23	25	development (map)	Dec	5	52	refineries	July	18	25
Peterson, Russell W. leaves OTA for		-		Mexican petrochemical buildup is well	huma	27	38	HOP's steam technique promises more	leafe.	25	4E
Audubon Society	Mar	7	21	Mexican petrochemical output is lag-	June	21	30	efficient heavy-oil recovery N Heavy-oil recovery: enhancing the out-	July	25	45
Petrochemical and Refining Exposition-				ging N	Sept	12	41	look	June	13	24
New developments in process control N	Apr	11	41	National Paint and Coatings Assn. annual				Imports see Imports			
Petrochemicals				meeting: Pressure is on petrochemicals for coatings	Nov	7	40	Iran oil cutoff prompts concern over feeds	Feb	14	16
Alaska Petrochemical contract for re-				Netherlands: strikes hit petrochemical	1400		40	Iran's oil: little help to the U.S	Mar	14	18
finery and petrochemical complex at		_		plants N	Oct	3	31	Iran's turmoil shakes world chemical			
Valdez, Alaska R	Aug	8	22	OECD sees slow growth through 1985 Petrochemical production increases but	Jan	24	14	markets (table)	Feb	13	19
Amoco's Brennan at Southwest Chemi- cal Assn. gives rosy forecast	Feb	14	17	some major product categories have				Iranian crisis: what toll in trade?	June		17
Argentina reduces tariffs on some				been 'on allocation' (chart)	Oct	31	15	Iraq pressures Brazil for nuclear tech-			
petrochemicals N	July	18	38	Petrochemicals prosper, fuel outlook				nology in exchange for ore	Nov	21	33
Aromatics: chemicals and gasoline com-	Apr	18	31	brightens, Royal Dutch/Shell Group and Northern Natural Gas executives				Italy's oil problems grow as Saudis can- cel a deal N	Dec	12	56
pete for aromatics	Agri	10	31	tell N,Y, financial analysts	Oct	3	21	LPG: Cracker feed flexibility: a boon to	Dec	12	50
petrochemical complex at Sydney . N	Feb	14	43	Philippines: American firms to supply				LPG imports/	Nov	21	19
Australian CPI buildup fosters fears of				technology for petrochemicals pro-		-	40	LPG: DOT seeking greater control over			
overcapacity	Feb	28	52	Puerto Rico: problems in paradise—	Nov	7	13	pipelines	Feb	14	14
Benzene see Benzene California air rules: San Francisco Bey				report. Meyer Lurie (charts & tables)	Apr	11	56	with Persian Gulf N	Nov	7	13
area companies take their case to				-Letter	May	9	5	LPG landing facilities approved for			
court	July	4	19	Scotland's gas-separation plant delayed		9	40	Rotterdam N	Nov	7	48
Canada: Alberta turns to aromatics as petrochemicals base (table)	Dec	10	27	Construction still in doubt: Shell and	May	9	40	LPG set to gain as feedstock, Carbide says	Nov	21	24
China: UOP expects \$100 million from	Dec	19	21	Esso fight for U.K. petrochemical				LPG supply to growN	Feb	28	28
design of three process units N	May	2	13	base	July	4	48	Mexican loan will spur oil exports to			
China continues buildup N	July	4	47	U.K. gas separation unit is okayed,	A	22	25	U.S	Sept		53
China orders four plants N	Jan	10	39	faces more delay N Gas-separation unit is challenged again	Aug	22	35	Mexico: Oil and gas reserves N NPRA's 1979 fuels and lubricants	Jan	10	39
China will become a big petrochemicals exporter N	Dec	19	26		Oct	3	31	meeting: Refiners seek supply-demand			
Commercial Development Assn. meeting:				Shell's Deer Park, Tex. complex: fire				answers	Nov	14	52
There's less room for petrochemical				forces cutbacks	Sept	12	19	New refining capacity, but is it enough?			
industry growth in the '80s	Jan	24	14	Singapore complex: Sumitomo consor- tium gives go-ahead N	Feb	7	24	-McGraw-Hill Dept. of Economics study (table)	Aug	29	20
Dow wants California to refund zoning				Singapore petrochemical complex pro-	1 00	,	4	OCAW leaders want the Feds to buy	Muy	23	20
fees for aborted petrochemical project.	Apr	4	21	spects brighten N	May	16	35	crude	June	13	20
Europe's plastics makers debate market				Singapore complex moves ahead N				OCAW rejects oil firms' first pay pro-		-	
coordination (table)	May	30	25	Aug 1-32 N South America: set for growth? (tables).			30 25	posals N OCAW imposes news blackout on	Jan	3	13
Fatty acids see Fatty Acids Feedstocks				South Korea seeks more raw materials	tatoà	20	20	negotiations with refinery workers R	Jan	10	21
Calvin at ACS meeting reports of rare				in U.S N	May	9	40	OCAW seeks reopener clauses in con-			
trees that can directly yield fuel oil			**	Sun finds stronger petrochemicals mar-	Don	**	20	tracts with refiners	Jan	17	18
and naphtha for chemical feedstocks. CMA is seeking plan to assure CPI	Sept	19	44	gins	Dec	12	28	Baltimore Canyon: Freeport Oil to			
feeds despite limits on oil imports. N	Oct	31	14	tage as oil tabs rise (charts)	Mar	28	19	drill	May	23	17
Cost hikes slowing, but so are prices				Taiwan continues heavy petrochemical				Baltimore Canyon: lower bids for		-	
users can charge (charts)	Aug	15	17	buildup N	Sept	12	42	leases	Mar	7	24
Cracker feed flexibility: a boon to LPG imports?	Nov	21	19	Taiwan tightens control of intermediates exports	Mar	28	37	Baltimore Canyon: Shell pulls out Baltimore Canyon: Tenneco goes	Feb	21	21
DOE's feedstock thinking spells chemi-	1404	21	10	Turkish chemical industry: economic			•	ahead May 30-19	June	13	21
cal troubles-Viewpoint	July	4	5	problems curb CPI output, petro-				Blowout at Placid Oil site kills three	Mar	14	20
Dow to sell products from crude-		05	40	chemical buildups		28	39	Exxon proded by Interior to speed	Aun	1	10
processing unit N Europe's petrochemical firms must	July	25	13	U.S. industry under foreign fire from European Community and Canada	Oct	10	18	up Santa Barbara oil, gas project. N Oil-price decontrol will spur drilling,	Aug		10
have strong links to feedstock								use of oil-field chemicals (charts &			
sources N	Oct	17	69	Petroleum				table)	Apr	18	15
Fuels and feedstocks outlook: more plentiful fuels, at loftier prices				Alaskan pipelines see Piping				Santa Barbara offshore oil leases bids total \$994 million	July	11	19
(chart)	Sept	26	16	Amerada Hess removed from the list of those not complying with the				Oil and chemicals. Era of peaceful co-	July		,,,
Heavy-oil recovery: enhancing the out-				federal wage-price guidelines	July	25	19	existence? - report, Meyer Lurie			
look	June	e 13	24	Arco slates \$100 million for fluid car	t			(tables)	Oct	17	70
fran oil cutoff prompts concern over feeds	Feb	14	16	cracker at Philadephia refinery A Ashland Oil selling oil and gas properties	May	30	13	production capacities	Oct	17	74
Iranian crisis: what toll in trade?		21	17	Jan 10-21, N Feb 7-13, R Feb 7-22				Oil-field chemicals see Oil-field Chemi-			
Naphtha: it's a question of price, not		_		N Feb 14-9	Apr	4	17	cals			
OPEC price hike will put the squeeze	Mar	7	15	Barite benefits from emphasis on oi				Oil-firm acquisition bill passes commit-	Non	28	23
on CPI profit margins	Jan	3	17	and gas production (chart & table) Brazil's CPI shifts from oil to alcohol .	. Feb Nov		26 49	Oil from algae: Pennsylvania State Univ.	1404	20	23
-Correction	Jan	10	21	Canadian oil, gas: how much, how		20	40	researcher Engel develops algae-to-oil			
Polyolefin market outlook: capacity, inventories, feedstock prices (chart).	lun-	e 13	37	soon? (charts)	. Oct	17	20	process using hydrogen	July	18	43
Thermal Regenerative Cracking (TRC)	Juni	8 13	3/	Canadian refiners face strike threat N		14	44	Oil shale see Shale Oil			
process that can make ethylene from				Capital spending: Oilers step up outlays for plants, feedstocks	. Nov	7	17	Oil spills see Water Pollution Olefins see Olefins			
resid to get pilot plant test N	Oct	24	38	Catalysts report, Donald P. Burke (chart	1			Petrochemicals prosper, fuel outlook			
Great Britain's Margaret Thatcher: She's having an impact on CPI. Tim Keeley				& tables)				brightens, Royal Dutch/Shell Group			
(charts)	Oct	24	32	Part I: A \$600-million market in car and refineries	Mar	28	42	and Northern Natural Gas executives tell N.Y. financial analysts	Oct	3	21
Greece to get major petrochemicals				Cetic says oil shortage and high cost	5	20	4.6	Phillips Petroleum re-refining process:		3	21
complex N	Jun	e 27	36	pose problems in Europe	l Jun	e 20	45	Demetallization and hydrotreating are			
Greece ventures into petrochemicals and EEC	July	/ 18	39	CPI feat: scrimping on fuel oil Chemical Week 300—report, Homer G		e 20	20	keys N Piping see Piping	Apr	4	37
India's CPI is stalled by political crisis				Starr (tables) Feb 28-42, Apr 25-42				Plant sites 1980 - report, John M.			
(tables)	Sep	t 19	36	May 30-50, Aug 29-37	. Nov	21	38	Winton			
Indonesia: higher prices lead to more oil from IndonesiaN	Oct	31	30	Chemicals for oil production see Oil				How industrial power costs, charges			
Indonesia seeks partners in petrochemi-		-	50	field Chemicals China boosts oil and gas output to help				for coal, oil and gas and reserves compare (table)	Dec	5	78
cals finds urea plant financing N	July	y 11	36	pay for economic buildup	l Jan	10	39	Prices	1,500		,,,
Iran: Political-risk coverage in Iran only	Dec	5	21	China's chemical output grows, bu	Ŷ.		49	Carter weighs decontrol of oil and gas			
\$54 million	Dec	. 0	A1	government slows development (table) DOE aims for better allocation of	July	25	37	Carter unveils plans to decontrol oil	Mai	28	3 21
interest; some projects halted N		y 16	35	energy	. Mar	7	18	prices and foster energy R&D	Apr	11	21
Iran's Bandar Shahpur complex: Trying				DOE considering three chemical com				Chemical price picture clouded by			
to cope with chaos in Iran	Jan	10	31	panies and two alcohol producers fo	r			uncertain effect of OPEC oil hikes	July	y 11	19
Complex at Bandar Shahpur may soon be revived N		g 8	25	entitlements available to producers o oil substitutes		1 26	24	DOE won't control new oil discovery		40	200
Discussions to get construction going				DOE finds that it is 'too cozy' with		. 20	24	Oil-price decontrol will spur drilling,	Jan	10	21
again N	Sep	ot 12	41	API	. May	/ 16	24	use of oil-field chemicals (charts &			
Iran will invest more in venture with Japanese N	Can	ot 19	39	DOE's O'Leary foresees 1980's of		24	10	table)	. Apr		
Japanese approve financing plan to	Seb	18	30	DOE ponders five plans for building u	. Jan	31	18	OPEC makes an 'untimely' move OPEC price hike will put the squeeze	Apr	r 4	24
help complete construction of com-			1.0	strategic petroleum reserves	(No	14	18	on CPI profit margins	Jan	3	3 17
plex at Bandar Khomeini N	Oct	t 24	31	DOE seeks \$9-billion budget for 1981.	. Dec		26	-Correction	. Jan		
Iran's turmoil shakes world chemical markets (table)	Fel	b 21	19	Dow contract for crude oil from Mex co's Pernex	d Affe	28	17	Synthetics will have larger cost advan- tage as oil tabs rise (charts)		r 28	3 19
					- mai	20	.,	tage as on taus rise (criarts)	rvial	28	19

Union sues OPEC for oil-price hike . N	Jun	10	13	Phosphate slag studied as radiation	Jan	31	YR	Plant Location American Hoechst wins round in site			
Court defers ruling on OPEC anti- trust suit	July	4	18	Prices N Mar 28-28 N		28	40	fight for plant in Bayport, Tex	Aug	29	27
U.S. petrochemical industry under				Texasguif to expand Lee Creek phos-	Sept	10	17	Chemical industrial park proposed for	0-4	24	20
foreign fire as result of price controls on oil and gas	Oct	10	18	phate	Sept	119	17	Louisiana	Oct	31	39
Reserves discussed at AAAS annual			-	wenture N World fertilizer study, IFDC, TVA sees	Oct	10	42	fees for aborted petrochemical pro-			
Sales and earnings: Loose talk of	Jan	17	29	tightening markets (chart)	May	16	31	Israel's desert sites: Ramat Hovav com-	Apr	4	21
'obscene' oil profits is itself obscene	Mary	7	5	Yugoslavian development N Phosphites—Additives prices N		28 28	37 28	plex; others planned	Aug	1	31
-Viewpoint	Nov		12	Priosprites—Auditives prices	ren	20	20	Winton (charts, tables, maps)	Dec	5	71
The continuing saga of "obscene" oil	Dec	5	5	Phosphoric Acid				Plastic Film			
profits-Viewpoint	Crec	3		Agrico to boost production at South Pierce, Fla	July	25	24	Calanese may sell polyester film busi-			
struction still in doubt; Shell and Esso fight for U.K. petrochemical base	July	4	48	Demand up	Aug	8	18	ness, including plant at Greer, S.C American Hoechst to pay \$75 million	Jan	17	19
Shell patent says tin counteracts heavy	July			Freeport uranium oxide recovery opera- tion planned near Donaldsonville,				for polyester film business N	Apr	18	13
metals in refinery cat cracking N	Jan	10	34	La N	Oct	17	17	Celanese sells Greer, S.C. unit and other assets to American Hoechst. N	Aug	20	17
Shell's plans for tertiary oil recovery backed by DOE N	Apr	13	14	IMC joint venture has means to recover uranium from phosphoric acid N	Oct	10	42	Dow plans Drusenheim, France, com-	roug	20	**
Soviet oil-recovery efforts will get a boost from nonionic-surfactants plant N	Nov	28	42	Markets: strong export and domestic				plex to produce "Saranex co-extruded multilayer barrier films" R	Aug	15	24
Synthetic fuels see Fuel				demands buoy markets (charts & tables)	Aug	1	25	Du Pont aims to double capacity for		-	
Taxes: up for oil, down for others (chart)	Aug	8	16	Prices N	Nov	28	40	Kapton polyimide film by 1980 at Circleville, O. plant N	Apr	4	17
TVA sees threat from oil companies				TVA to test use of gas from coal in fuel cell pilot plant N	Dec	19	70	Du Pont plans polyolefin shrink film	· ·		40
buying into coal, uranium	Mar	28	25					expansion at Clinton, la N Exxon Chemical USA polyethylene film	Jan	10	13
production in the Permian basin by		05		Phosphorus Fertilizer forecast	Sept	5	66	capacity at Lake Zurich, III. to double	0	17	28
mid-1984	July	25	24	Great Lakes cleanup: Good news, and				Gossamer Albatross, pedal-driven air-	Oct	17	28
wood chemicals, inject new life into	home	- 20	es.	Phosphorous Pentoxide—Fertilizer use	July	18	26	plane using plastics composites and			
Tertiary recovery: lignosulfonates bid	Juni	20	65	rebounds (chart)	Feb	14	31	film will attempt to cross the English Channel	Mar	28	22
for jobs in tertiary recovery N	May	30	55					Man-powered aircraft crosses Channel Hercules plans addition to biaxially	June	20	27
Tertiary recovery: Russia is looking at enhanced oil recovery N	link	18	42	Prices N Jan 3-40, N Mar 21-32, N Mar				oriented polypropylene film plant			
Tertiary recovery: surfactants market	Nov		41	28-28, N Apr 25-27 N	May	2	49	under construction at Terre Haute,	Nov	7	13
Thermal Regenerative Cracking (TRC) process that can make ethylene from				USS Chemical and Tenneco slate chemi- cal venture N	Dec	19	17	Ind	LEGA		13
resid to get pilot plant test N	Oct	24	38					volving the theft of polyester film pro- cess trade secrets from Celanese	May	9	19
Trading an OPEC choker for a Washing- ton noose—Viewpoint	lich	25	5	Pigments Dry Color Mfgrs. Assn. joined by 500				Mobil plans oriented polypropylene	may	9	19
-Letters		29	5	companies asking EPA for exemption			••	(OPP) film plant at Belleville, Ont., to supply the Canadian packaging film			
Turkish chemical industry: economic problems curb CPI output, petro-				from bans on pigments R EM Industries pigments plant near	Sept	20	24	market	Aug	15	13
chemical buildups		28	39	Savannah, Ga R	Nov	21	22	Northern Petrochemical plans oriented polypropylene film plant N	Apr	11	29
U.S.S.R. slows down oil sales to Italy N Windfall' tax: Lines drawn	Jan Apr		31 17	Hercules sells U.S. pigments business to Ciba-Geigy	Aug	15	24	Northern Petrochemical plans plastic	repre		
Carter outlines proposed plan	May	2	21	Iron oxide pigment prices N	Oct	17	54	packaging plant near Chicago R Packaging for chemically-activated hand	Apr	18	20
House may toughen proposal Approval seen for stiff oil windfall-	May	9	17	Mobay second stage of a new pigment plant at New Martinsville, W. Va., on				warmers based on simple iron-powder			
profit tax	Jun	e 27	24	schedule N Nail polish business: new ingredients	Oct	17	54	oxidation chemistry from Japan Polyester film package may cut home	June	27	40
Modified windfall-tax bill passed by House	July	4	19	give boost to \$150-million/year busi-				conditioning costs N	Aug	1	27
Compromise seen on oil-profits tax	Dec	12	21 23	Printing-ink specialty chemicals: regula-		8	41	Polyethylene film prices N Jan 31-24 N Tedlar polyvinyl fluoride film developed	July	18	34
Wood-to-oil process tests are favorable	Aug	15	23	tions, economics change mix	Feb	28	58	by Du Pont may cut cost of printed	Cant	10	43
Phenol Days eletes 'supply scale', phenol plant				Silica pigment prices N	Nov	14	44	circuit boards N	Sept	19	43
Dow slates 'world-scale' phenol plant for Europe N	Nov	28	17	Piping				Plasticizers			
G-P's capital-spending program: \$220 million on eight capital projects N	Aug	8	13	Alaskan natural gas Northwest Alaskan Pipeline Co.: Oil-				BASF batch plant at Kearny, N.J R CMRA meeting: Monsanto's De Schutter	Dec	12	28
Prices N Jan 31-24, N Feb 14-30, N				men have hope for natural gas line		29	25	discusses plasticizers	Dec	12	41
Mar 21-32 N Production figures for July 1979 N	Oct		37 27	Alaskan oil line Alaskans could get a share of oil pipe-				Fatty-acid-based plasticizer prices N Monsanto North American dialkyl phtha-	Oct	3	37
USS Chemicals expansion at Haverhill,				line under proposed stock plan	Mar	7	46	late plasticizers expansion R	Sept		28 69
O. R Jan 24-17 N Phenol-formaldehyde—Resin prices N	Feb	21	13 30	DOE endorses Alaskan oil pipeline project N		29	18	Prices N Jan 31-24, N Apr 25-27 N USS Chemicals and Tenneco slate		19	09
Phenolics—Resin prices N Feb 28-27 N	July	4	28	Drag-reducing additive may get more				chemical venture N		19	17
Phenytoin (or 5,5-diphenylhydantoin)— N1EH studies effect of chemicals on the				oil out of Alaska pipeline		e 27	26	Plastics			
fetus	Jan	31	21	to build pipeline for Alaskan oil N	Juni	e 6	14	ABS: Borg-Warner gears up for major			
Philippines				Stanford U's Marsden suggests con- verting Prudhoe Bay gas to methanol				ABS expansion at Port Bienville, Miss	July	18	17
Asian countries plan a common market for drugs N	Sen	t 19	39	cheaper than building pipeline N	Oct	3	43	ABS: Uniroyal acquires Pawnee Plastics'		-	
Brazi! proposes alcohol-based ethylene				Australia: Slurry pipeline system for coal will be developed N	Sept	t 26	32	custom-extruded sheet plant in Red- lands, Calif		28	25
Government will go ahead with construc-	No	28	42	Battelle wants safer procedures to re-			20	ABS prices N Jan 31-24, N Feb 7-30,			
tion of phosphate fertilizer plant N	No	v 21	28	pair pressurized pipelines N Coal pipelines: Boeing seeks partners to		14	36	N May 9-23, N May 30-24, N June 13-36, N Aug 8-23, N Oct 17-54 N	Dec	12	32
Petrochemicals: American firms to supply technology for petrochemicals				build line from Utah to West Coast . R DOT seeking greater control over pipe-		14	18	Auto-industry use of materials: big		10	19
project N	No		13	lines	Feb	14	14	changes ahead	Aug	10	19
Phosgene—Prices N	No	v 21	24	GE says long-distance chemical heat pipes may transport energy N	lac	31	36	efficiency drive (table)		19	20
Phosphate				Heat-storage pipes use the phase-change		01	-	Celanese shifts some plastics units	Jan		18
Beker comes back strong, but stays lean	No	v 28	28	properties of calcium chloride hexahy- drate to store energy N		, 9	29	Chem Show exhibitors	Nov	14	86
Demand up	Au			Mexican natural gas pipeline points to				Starr (tables) Feb 28-41, Apr 25-43,			
prices etc. (chart)	Ap	r 25	19	U.S. gas sales N Plastic: concentric plastic pipes find use		7	33	May 30-51, Aug 29-40	Nov	21	42
refunzer exports. Justice broadens		7	29	in U.K. for nuclear waste water N	Aug	1	27	(table)	Jan	17	20
probe N Fertilizer market: FI's annual marketing				Plastic: Ethyl sells PVC pipe business to Harsco N	Jan	10	13	Europe's plastics makers debate market coordination (table)	May	30	25
Fertilizer movement is picking up N		ne 20		Standard Oil (Ohio) scuttles pipeline to		21	23	Foam see Foam			
Fertilizer use rebounds (chart)		14		Midland, Tex. to move Alaskan crude . Sohio reconsiders oil project	Mar			Forecasters see tightening markets— CSMA meeting	May	23	44
Florida phosphate land buys: Coastal sues International Minerals & Chemical				California issues air-quality permit to Sohio				Gossamer Albatross, pedal-driven air-			
and Mobil Oil	Fel	5 7	21	Transcontinental Gas Pipeline Corp. and	May	-	40	plane using plastics composites and film will attempt to cross the English			
GAO pushes hard for study of phos- phates	Da	c 12	22	Algonquin Gas Transmission Co., plan pipeline to import Canadian natural				Channel	Mar	28	22 27
Grace, International Minerals & Chemi-				gas	Aug	29	17	Graphite-reinforced plastics cut auto			
cals agree on joint venture N IMC slates \$400-million capacity ex-	Oc	t 3	13	Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy-				weight	Mar	7	22
pansion for phos-rock and chemicals.N	Au	g 22	13	New instruments focus on application.		14	39	prohibiting the sale of beverages in			
Iraqi phosphate project is far behind schedule	Au	g 8	25	Plant Construction				plastic containers is illegal and uncon- stitutional R	Sept	5	23
Markets: strong export and domestic		, ,		Air pollution rules have building plans			40	Hungary's potential for plastics exports			-
demands buoy markets (charts & table)	Au	g 1	25	up in air		/ 18	48	India's CPI is stalled by political crisis	Aug	1	32
Mideast phosphate and potash output	1			nuclear power	. Mai	21	24	(tables)	Sept	19	36
to grow N Philippines government will go ahead			39	Coyne seeks a slot in gas-plant construc				Iran's turmoil shakes world chemical			
		ly a		tion	. July	y 25	35	markets (table)	Feb	21	19
with construction of phosphate ferti- lizer plant		w 21			. July			markets (table) . K-79 in West Germany: optimism for plastics .	Feb		22

	Markets: record volume tightens major plastics markets (charts & table)	Feb	28	15	EPA's final regulations are not expected to be a hardship for most industries N	Apr	4	18	KemaNobel and Norsk Hydro sign cooperation pact N	June	20	45
	National Boat Show: High-strength				Fighting Island waste-disposal site in the	- Apri	-	10	LDPE: Australian expansion R	May	2	23
	fibers find niche in boats	Jan	24	15	Detroit River under scrutiny	Dec	12	24	LDPE: exports N Jan 31-24 N LDPE: Exxon LDPE plants to use	Feb	14	29
	existence? — report. Meyer Lurie				workers in Washington, D.C. claim				Mitsubishi technology R	June	20	28
	(tables)	Oct	17	70	PCBs have caused them health pro-	A1	20	ar.	LDPE: Exxon plant in Mont Belvieu.			30
	duction capacities	Oct	17	74	Michigan finds PCB, DDT levels drop in	Nov	26	25	Tex. contract to Brown & Root R Expanding plans N	Aug Dec	12	17
	Output of plastics turns down, SPI	L.L.	4	28	Great Lakes fish	Feb	21	25	LDPE: National Distillers' U.S.I. Europe's			
	figures show	July	*	28	Michigan will speed cleanup of illegal dumps	Sept	19	22	operations to be bought by Exxon chemical N	Feb	14	9
	in U.K. for nuclear waste water N	Aug	1	27	Monsanto, GE to appear at Congres-				LDPE: Northern Petrochemicals' explo-			
	Pipe: Ethyl sells PVC pipe business to Harsco N	Jan	10	13	sional hearings on PCBs N NIEHS studies effect of chemicals on	Oct	10	14	sion and fire at LDPE unit in Morris,	Apr	18	18
	Product prices N	May	9	23	the fetus	Jan	31	21	LDPE: Prices N Mar 7-31, N July 11-23,			
	Production stays at high levels N Refuse bags: price-fixing among makers	June	27	29	North Carolina illegal dumping: three	Jan	31	21	N Aug 22-32, N Oct 10-39 N LDPE: UC grants license to Unifos for	Dec	12	32
	of plastic refuse bags probed; Chelsea				Plead guilty	Jan	31	21	Unipol process	Oct	24	24
	Industries subpoensed R Safety-glazing market may open, if	Feb	14	18	of PCBs spilled off roads N	Apr	11	41	LDPE: Union Carbide licenses low- pressure polyethylene process to			
	CPSC weathering tests for plastics are				Rollins seeks permits for two PCB- disposal sites	May	23	18	Exxon N	Apr	18	13
	eliminated	Nov	21	19	Tecumseh Products finds PCB in soil at			00	LDPE: UC plans capacity boost for			
	Sales dip, production falls off only slightly N	Oct	10	39	plant in Sheboygan Falls, Wis	Mar	7	23	plants at Taft, La. and Seadrift, Tex LDPE: Will LDPE market stay healthy?	Sept	26	18
	Shell slates a fourth thermoplastic			47	Polyester				(chart & table)	Nov	7	33
	rubber unit at Marietta, O N SPI plan for statistical forecast nixed by	Nov	14	17	Allied expands plant for tire and in- dustrial yarn in Moncure, N.C N	Mar	21	17	LDPE film prices	Jan	31	24
	FTC N	June	6	14	American Enka phasing out dyed				plastics markets (charts & table)	Feb	28	15
	Synthetic resins: U.S. producers of plastic resins launch new round of				polyester yarn N	Feb Mar	28	13 24	Plastics forecasters see tightening markets —CSMA meeting	May	23	44
	expansion projects (table)	Sept	5	16	Whitakers, N.C. plant closing R Bottle resin market will more than	(A)(B)	,	24	Polyethylene's new pitch: properties,			
	-Letter	Nov	7	8	double this year, Goodyear says N	Jan	17	35	not process. The line that differentiates			
	tage as oil tabs rise (charts)	Mar	28	19	Bottles: Amoco to make polyester bottles at newly-acquired plant in				low-density from high-density poly- ethylene resins is becoming more			
	Thermoplastic elastomers: research ex-				West Chicago N	Oct	10	13	blurred	Nov	7	50
	tends uses into auto and adhesives markets.	June	6	38	Bottles: Owens-Illinois plans beverage- bottle plant in N.J R	July	26	24	Polyolefin market outlook (chart) Shell Chemical invokes force majeure	June	13	37
	Thermoplastics: Polyolefins share tops				BP to buy ICI's unsaturated polyester				on U.K. polyethylene N	June	27	29
	50% (chart)	June	13	37	resin plant at Wilton N	June	6	30	Shell/Exxon projects in Saudi Arabia mired in negotiations N	May	9	13
	15.7% in first half-SPI data N	Aug	29	33	Carpet fibers: Housing slump hasn't hurt carpet fibers (chart)	Nov	21	25	Skating rinks	Aug		42
	Thermoplastics market is continuing to	May	9	24	Celanese earnings show impact of poly-				Thermoplastics market	May	9	24 17
	tighten	may	ы	24	ester woes N Celanese may sell polyester film busi-	Nov	28	40	UC plans Canadian PE expansion N U.S. producers of plastic resins launch	Aug	28	17
	quarter pace N	May	30	24	ness, including plant at Greer, S.C	Jan	17	19	new round of expansion projects		-	
	Underground storage tanks: Steel, plas- tics bid for storage tank sales	Sept	19	52	American Hoechst to pay \$75 million		10	40	(table)	Sept	5 7	17
	Waterslides	Aug	22	42	for polyester film business N Sells Greer, S.C. unit and other assets	Apr	10	13	Venezuela plans polyethylene plant	1404		
	Plastics see also specific plastic Plating see Electroplating				to American Hoechst N	Aug	29	17	downstream from El Tablazo com- plex N	Feb	14	44
					China offers joint-venture participa- tion in textile venture to Toray N	July	4	47		Len	1-0	44
1	Platinum		10	44	Cotton Inc. study done by ADL indi-			**	Polyethylene Terephthalate Bottles			
	GM gears up for shift to richer catalyst . Platinum-based drug, cisplatin, to treat	May	10	44	cates rising oil prices will erase poly- ester's price advantage over cotton by				Du Pont issues PET license to Mont-			
	testicular, ovarian cancers approved by		_		1985	Aug	15	17	edison N	Apr	25	17
	Platinum set to shine in anticancer	Jan	3	34	Du Pont disputes fibers study	Sept	5	18	Du Pont signs PET deal with ICI N Celanese will more than double PET	Jan	10	13
	drug therapy	Jan	31	42	Du Pont charges ICI with patent in- fringement of polyester patents R	July	4	22	resin capacity at Palmetto plant in			
1	Plutonium—Tin-nitride process to recycle	Man	21	46	Engineering fabrics provide solid sup-				Darlington, S.C N Polyimides—Du Pont aims to double	Sept	5	13
-	nuclear fuel: Battelle study due N Polishes—Floor polish: CSMA meeting	Nov		34	port for roads, drainage systems	June		32 44	capacity for Kapton polyimide film by			
- 4	Polyacrylamide-Purchased by Russia . N	July	18	42	Gossamer Albatross, pedal-driven air-				1980 at Circleville, O. plant N	Apr	4	17
,	Polyacrylates—Sanyo Chemical Industries starch-grafted polyacrylate superabsor-				plane using plastics composites and				Polymerization			
	bent polymers to get capacity boost , R	Sept	26	69	film will attempt to cross the English Channel	Mar	28	22	Catalysts for olefin polymerization:			
	Polyalphaolefins—Gulf likely to build PAO unit in Texas as discussions for				Man-powered aircraft crosses Channel .	June		27	ACS meeting	Apr	11	45
	leasing facilities from Pearsall Chemical				Hydrophilic finish for polyester Mitsubishi fined in trade-secrets case	Feb	7	26	(charts & tables) Part II: Chemicals-			
	Plant slated for Cedar Bayou, Tex N	Jan	17	13 13	involving the theft of polyester film			0	Polymerization	Apr	4	60
	Francisiated for Cadar Bayou, 1ex N	June	13	13	process trade secrets from Celanese Nail polish business: new ingredients	May	9	19	Polymers			
1	Polybrominated Biphenyls				give boost to \$150-million/year busi-				Asahi's Tenac PT 300, acetal homo-	0	47	40
	Michigan seeks sites of Velsicol waste dumps	July	4	21	ness	Aug	8	41	polymer can be electroplated N Cobalt-polymer catalyst provides low-	Oct	17	40
	Michigan study from Selikoff reports no				Polyester film package may cut home air-conditioning costs	Aug	1	27	cost route to steroids, hydrocarbons .N	June	13	23
	ill effects from PBB contamination Michigan suit: Velsicol Chemical and	Oct	17	27	Prices, fiber N Jan 10-24, N Jan 17-32,				ICI Americas plans research lab in West Deptford, N.J R	May	16	28
	Michigan Farm Bureau Services seek				N Feb 14-30, N Feb 28-28, N Apr 4-29, N Dec 5-49. N	Dec	19	69	IBM develops material that expands		-	
	award of court costs in PBB suit Detroit grand jury indictes Velsicol	Jan May	24	16 21	Prices, plastic N Feb 28-28, N May 9-23			00	under ultraviolet light N	Jan	10	33
	PBB cases settled									3811		31
		Oct	31	17	Chiaments	Dec		69	Monsanto's cancer drug NED 137: Human trials start N		e 27	
	Polybutenes—Prices N	Feb			U.S. producers of plastic resins launch	May		69 23	Human trials start N Cancer drug shows promise but			29
	Polybutylene Terephthalate—Montedison		31	17	U.S. producers of plastic resins launch new round of expansion projects	May	9	23	Human trials start	June	1	
	Polybutenes—Prices N		7	17	Shipments		9		Human trials start	June Aug Nov	21	22
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N	Feb	7	17 30	Shipments	May	9	23	Human trials start . N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings . Polymer concrete for potholes and road overlays .	June Aug Nov	1	
	Polybutenes-Prices Novel	Feb	7	17 30	Shipments U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source water- gels. Witco building unit at Perth Amboy,	May Sept	9 5	23 17 36	Human trials start	June Aug Nov	21	22
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel	Feb	7	17 30	Shipments	Sept Feb May	9 5	17	Human trials start N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings Polymer concrete for potholes and road overlays Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost R	June Aug Nov Aug	21	22
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbo- nates (table; Mobay to expand polycarbonate capacity	Feb Feb Dec	31 7 21	17 30	Shipments N. U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source watergels. Witco building unit at Perth Amboy, N.J. Rollyethers—Prices N. N. Polyethers—Prices N. N.	Sept Feb May	9 5 14 2	23 17 36 23	Human trials start N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost R Shell plans chemical complex near	June Aug Nov Aug	21 29	22 53
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbo- nates (table; Mobay to expand polycarbonate capacity at Baytown, Tex. N Sefety-glasting market may open, if	Feb	31 7 21	17 30 37 50	Shipments U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source watergels. N Witco building unit at Perth Amboy. NJ. Polyethers—Prices N Polyethylene	Sept Feb May	9 5 14 2	23 17 36 23	Human trials start N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost R Shell plans chemical complex near Edgard, La N Superabsorbents seek markets that N	June Aug Nov Aug Sept Jan	1 21 29 t 26 31	22 53 69 13
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbo- nates (table): Mobay to expand polycarbonate capacity at Baytown, Tex	Feb Dec Oct	31 7 21 5 17	17 30 37 50 17	Shipments N. U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source watergels N. Witco building unit at Perth Amboy, N.J Rolyethers—Prices N. Polyethylese Air-bubble technology in insulation	Sept Feb May Jan	9 14 2 31	23 17 36 23 24	Human trials start N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost	June Aug Nov Aug Sept Jan	1 21 29 t 26 31	22 53 69
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbo- nates (table); Mobay to expand polycarbonate capacity at Baytown, Tex. N Sefety-glazing market may open, if CPSC weathering tests for plastics are eliminated	Feb Feb Dec	31 7 21 5 17	17 30 37 50	Shipments U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source water- gels. Witco building unit at Perth Amboy, N.J. Polyethylene Air-bubble technology in insulation applications Dow to expand capacity for linear low-	Septi Feb May Jan	9 5 14 2 31	23 17 36 23 24	Human trials start N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost	June Aug Nov Aug Sept Jan July	1 21 29 t 26 31	22 53 69 13 40
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbonates (table; Mobay to expand polycarbonates (table; N Sefety-glazing market may open, if CPSC weathering tests for plastics are eliminated Polychlorinated Biphenyls	Feb Dec Oct	31 7 21 5 17	17 30 37 50 17	Shipments N U.S. producers of plastic resins launch new round of expansion projects (table) Waste fibers could be source watergels N Witco building unit at Perth Amboy, N.J R Polyethers—Prices N Polyethylene Air-bubble technology in insulation applications. Dow to expand capacity for linear low-and intermediate-density PE N	May Sept Feb May Jan	9 5 14 2 31 0 20 31	23 17 36 23 24 41	Human trials start. N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost . R Shell plans chemical complex near Edgard, La . N Superabsorbents seek markets that are super U.S. producers of plastic resins launch new round of expansion projects (table)	June Aug Nov Aug Sept Jan July	1 21 29 t 26 31 18	22 53 69 13
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbo- nates (table) N Mobay to expand polycarbonate capacity at Baytown, Tex. N Sefety-glazing market may open, if CPSC weathering tests for plastics are eliminated P Polychlorinated Biphenyls Cleveland suit charges Laskin and Waste Oil with oiling roads with PCB-	Feb Dec Oct	31 7 21 5 17	17 30 37 50 17	Shipments N U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source watergels. Natico building unit at Perth Amboy, N.J. Rolyethers—Prices. N. Polyethylene Air-bubble technology in insulation applications. Dow to expand capacity for linear low-and intermediate-density PE. N. Exports N Apr 18-23. Exxon Chemical USA polyethylene film	May Sept Feb May Jan	9 5 14 2 31	23 17 36 23 24	Human trials start N Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost	June Aug Nov Aug Sept Jan July	1 21 29 t 26 31 18 t 5	22 53 69 13 40
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel	Feb Dec Oct Nov	31 7 21 5 17 21	17 30 37 50 17	Shipments U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source water- gels. Witco building unit at Perth Amboy, N.J. Polyethers—Prices N Polyether—Air-bubble technology in insulation applications Dow to expand capacity for linear low- and intermediate-density PE N Exports N Apr 18-23 Exports N Apr 18-23 Exports N Apr 18-23 Exports N Apr 18-23 Exports Apr 18-24 Exports Apr 18-25 Exports Apr 18-26 Export	Septi Feb May Jan Juni Oct	9 5 14 2 31 6 20 31 10	23 17 36 23 24 41 13 39	Human trials start . N Cancer drug shows promise but	June Aug Nov Aug Sept Jan July Sep	1 21 29 t 26 31 18 t 5	22 53 69 13 40
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbo- nates (table; N Mobay to expand polycarbonate capacity at Baytown, Tex. N Sefety-glazing market may open, if CPSC weathering tests for plastics are eliminated P Polychlorinated Biphenyls Cleveland suit charges Laskin and Waste Oil with oiling roads with PCB- containing waste oil and burning similar waste in boilers at greenhouse	Feb Dec Oct Nov	31 7 21 5 17 21	17 30 37 50 17	Shipments U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source water- gels. Wates fibers could be source water- gels. N' witco building unit at Perth Amboy, N.J. Polyethylene Air-bubble technology in insulation applications Dow to expand capacity for linear low- and intermediate-density PE NExports NA or 18-23 Excon Chemical USA polyethylene film capcity at Lake Zurich, III, to double Film-product prices. N	Septi Feb May Jan Juni Oct	9 14 5 14 2 31 10 17 17	23 17 36 23 24 41	Human trials start. N. Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost R. Shell plans chemical complex near Edgard, La. N. Superabsorbents seek markets that are super. U.S. producers of plastic resins launch new round of expansion projects (table). Polymethyl Methacrylate—Material for hard contact lenses	June Aug Nov Aug Sept Jan July Sep Oct	1 21 29 t 26 31 18 t 5	22 53 69 13 40
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel N Polycarbonates Bisphenol A will grow with polycarbo- nates (table); Mobayto expand polycarbonate capacity at Baytown, Tex. N Safety-glazing market may open, if CPSC weathering tests for plastics are eliminated Polychlorinated Biphenyls Cleveland ault charges Laskin and Waste Oil with oiling roads with PCB- containing waste oil and burning similar waste in boilers at greenhouse. Contamination found in chicken meat meal force Idaho and Utah health	Feb Dec Oct Nov	31 7 21 5 17 21	17 30 37 50 17	Shipments N U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source watergels N Witco building unit at Perth Amboy, N.J R Polyethers—Prices N Polyethylene Air-bubble technology in insulation applications. Dow to expand capacity for linear low-and intermediate-density PE N Exports N Apr 18-23 N Exonc Namical USA polyethylene film capcity at Lake Zurich, Ill, to double Film-product prices N Formosa Plastics signs know-how con-	Septi Feb May Jan June Oct Oct	9 1 6 14 2 31 31 10 17 18	23 17 36 23 24 41 13 39 28 34	Human trials start. N. Cancer drug shows promise but . N. Cancer drug shows promise but . Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorhent polymers to get capacity boost . R. Shell plans chemical complex near Edgard, La. N. Superabsorbents seek markets that are super. U.S. producers of plastic resins launch new round of expansion projects (table). Polymethyl Methacrylate—Material for hard contact lenses . Polyloeffins Du Pont plans polyloefin shrink film expansion at Clinton, Ia. N.	June Aug Nov Aug Sept Jan July Sep Oct	1 21 29 t 26 31 18 t 5	22 53 69 13 40 17 38
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel	Feb Dec Oct Nov	31 7 21 5 17 21	17 30 37 50 17	Shipments N N U.S. producers of plastic resins launch new round of expansion projects (table) Waste fibers could be source watergels N .	Septi Feb May Jan June Oct Oct	9 14 5 14 2 31 10 17 17	23 17 36 23 24 41 13 39	Human trials start. N. Cancer drug shows promise but Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost . R. Shell plans chemical complex near Edgard, La N. Superabsorbents seek markets that are super. U.S. producers of plastic resins launch new round of expansion projects (table). Polymethyl Methacrylate-Material for hard contact lenses Polyolefins Du Pont plans polyolefin shrink film expansion at Clinton, Ia N. Hercules-Solvay joint ventures to com-	Juni Aug Nov Aug Sepi Jan July Sep Oct	1 1 21 29 29 t 26 31 18 t 5 3 10	22 53 69 13 40 17 38
	Polybutenes—Prices N Polybutylene Terephthalate—Montedison develops know-how to make a plastic bicycle wheel	Feb Dec Oct Nov	31 7 21 5 17 21	17 30 37 50 17	Shipments N U.S. producers of plastic resins launch new round of expansion projects (table). Waste fibers could be source watergels. Wates fibers could be source watergels. NJ. The source watergels. NJ. The source watergels. Note that the source watergels of the source watergels. Note that the source watergels watergels watergels watergels. Note that the source watergels watergels watergels watergels. Note that the source watergels watergels watergels watergels watergels. Note that the source watergels watergels watergels watergels watergels. Note that the source watergels watergels watergels watergels. Note that the source watergels watergels watergels watergels watergels. Note that the source watergels watergels watergels watergels watergels. Note that the source watergels watergels watergels watergels watergels watergels. Note that the source watergels	Septi Feb May Jan June Oct Oct	9 1 5 14 2 31 31 10 17 18 7 30	23 17 36 23 24 41 13 39 28 34	Human trials start. Navy seeks antifoulants for new ship coatings. Polymer concrete for potholes and road overlays. Sanyo Chemical Industries starch-grafted polyacrylate superabsorbent polymers to get capacity boost. Shell plans chemical complex near Edgard, La. Superabsorbents seek markets that are super. U.S. producers of plastic resins launch new round of expansion projects (table). Polymethyl Methacrylate—Material for hard contact lenses. Polyolefins Du Pont plans polyolefin shrink film expansion at Clinton, Ia. Nercules-Solvay joint ventures to commercialize polyolefin pulps. Restarts solvolvolefin pulps. Restarts saltes odivolefin pulps. Restarts saltes odivolefin pulps. Restarts saltes odivolefin pulp lant for	Juniy Aug Nov Aug Sepi Jan July Sep Oct	1 1 21 29 29 26 31 18 5 3 10 21	22 53 69 13 40 17 38
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Poly-p-(N,N-dimethylamino)-N-gamma-D- glutamanilide-IBM develops material				Ethyl sells PVC pipe business to Harsco N	Jan	10	13	Stock Prices II: Jan 10-22, Jan 24-18, Feb 7-23, Feb 21-28, Mar 7-29,			
that expands under ultraviolet light N	Jan	10	33	Exports N	Oct		39	Mar 21-27, Apr 4-28, Apr 18-22,			
Polypeptides—Drug COP, shows promise in treating multiple sclerosis N	Nov	14	51	Formosa Plastics to invest in Texas plants	July	11	13	May 2-24, May 16,29, May 30-23, June 13-33, June 27-28, July 11-24,			
				G-P's Painsville, O., PVC resin plant to	.,			July 25-28, Aug 8-28, Aug 22-31,			
Polypropylene Australia: Polypropylene glut possible				be converted to polystyrene resin facility N	May	9	13	Sept 5-24, Sept 19-41, Oct 3-26, Oct 17-39, Oct 31-24, Nov 14-43,			
as Shell and ICI plants come on-			20	G-P plans new PVC capacity at Plaque-			**	Nov 28-33	Dec 1	12	31
stream			38 52	mine, La	Aug	15	13	Wage-price quidelines COWPS sets wage-price rules	Jan 1	0	17
Canada rules PP resin is being dumped.N Carpet fibers: Housing slump hasn't	May	2	60	Plaquemine, La N Goodrich unveils plans for major PVC	Feb	14	9	GAO says contracts can't be withheld			
hurt carpet fibers (chart)	Nov	21	25	expansion N	Aug	8	13	from wage-price offenders Chemicals are targeted as "trouble	Feb 1	14	18
Concentric plastic pipes find use in U.K. for nuclear waste water N	Aug	1	27	Heat stabilizer prices N Hungary's potential for plastics exports	Oct	31	39	spot' under wage-price guidelines	Mar 1	4	17
Engineering fabrics provide solid sup-				grows N	Aug	1	32	COWPS clamps down on price stan- dard	Mar 2	21	21
port for roads, drainage systems N	June	10	32 39	KemaNobel and Norsk Hydro sign cooperation pact N	June	20	45	Windfall' tax: Lines drawn			17 21
Exports spur plastics demand N			29	Markets: record volume tightens major				Price guidelines begin to pinch an			
Formosa Plastics signs know-how con- tracts for Taiwan plants N	May	30	28	plastics markets (charts & table) Mexico: Goodrich starts PVC plant	Feb	28	15	already cost-burdened CPI Unions win round in court fight	May	9	17
France: Shell Chemie commissions plant at Berre Chemicals complex R	Apr		21	construction near Tampico N	Nov	28	42	against wage-price guidelines	June	6	19
Hercules' joint-venture plant in Taiwan	Mpr	10		Plastics forecasters see tightening mar- kets—CSMA meeting	May	23	44	CPI firms get pricing relief from COWPS	June 2	20	22
to be expanded R Hercules plans addition to biaxially	Aug	1	18	PVC plants are meeting EPA standards— but losing production capacity	Mar	28	36	Rubber firms may be hit for guideline			200
oriented polypropylene film plant				Prices N Jan 31-24, N Sept 19-35 N	Sept	26	48	violation	July	•	20
under construction at Terre Haute, Ind N	Nov	7	13	Production figures for July 1979 N Sales control looming? N	Oct	3 28	37 27	contracts from guideline violators. N Hess gets off COWPS noncompliance	July	11	14
Hercules polypropylene fiber plant at				Shintech to double size of PVC plant at				list	July 3	25	19
Oxford, Ga. planned N Groundbreaking N	May	9 22	13	Freeport, Tex	June	13	22	COWPS still monitors profit-margin tallies	Aug	1	14
Hungary's potential for plastics exports		1	32	plant at Sasolberg has good first year Thermoplastics market	Aug	9	45 24	COWPS readies revised wage-price			
grows N Japan: Polypropylene unit at Kashima;	Aug		32	U.S. producers of plastic resins launch	resay	9	24	guidelines	Aug	15	18
construction will resume N Markets: production, capacity, exports	May	9	39	new round of expansion projects	Sept	6	17	prices	Sept	12	18
consumption (chart & table)	Oct	24	29	(table) VCM see Monomers				Squibb found to be out of line with price guidelines N	Sept	19	18
Markets: Record volume tightens major plastics markets (charts & table)	Feb	28	15	Worldwide activity	Apr	11	54	COWPS, Goodrich agree on com-	Oct	3	19
Mobil plans oriented polypropylene				ride film developed by Du Pont may cut	_			Pay Advisory Committee (PAC): Busi-	OCE	3	19
(OPP) film plant at Belleville, Ont., to supply the Canadian packaging film				cost of printed circuit boards N Poromerics—Grips for tennis racquets	Sept		43 42	nessmen cool to new water com-	Oct	10	24
market N	Aug	15	13	Porphyrins-Low-cost catalysts called				PAC: Wage panel has two weeks to			
Montedison Plastics Division second plant for high-yield catalyst for				"face-to-face" porphyrins for fuel cells could widen their uses N	Sept	5	76	set guides	Oct :	24	19
polypropylene R	Dec	5	43	Portugal-Companhia Nacional de Petro-				guidelines N	Oct	31	13
Northern Petrochemical plans oriented polypropylene film plant N	Apr	11	29	quimics to supply propylene to un- identified U.S. firm N	June	6	30	Squibb in complete compliance on prices says COWPS R	Nov	14	42
Northern Petrochemical plans plastic								PAC: Division developing over pay			-
packaging plant near Chicago R Plastics forecasters see tightening mar-	Apr		20	Potash Arab Potash committed for potash				board stance	Dec	5	28
kets-CSMA meeting	May	23	44	sales N	Sept		53 69	modity, etc.			
8-23, N Aug 15-35, N Sept 5-65 N	Dec	12	32	Brazil: France backs mining project . N Canada: Potash firms may take Saskat-				Printing			
Production figures for July 1979 N Thermoplastics market	Oct	3	37 24	chewan tax deal	Oct	17	26	Chemical Week 300-report. Homer G. Starr (tables) Feb 28-39, Apr 25-33,			
Polysaccharide-Sucralfate metal complex	resery	0	24	prices etc. (chart)	Apr		19	May 30-48, Aug 29-36	Nov	21	42
to treat stomach ulcers: approval sought	July	11	25	Fertilizer forecast	Sept		66 35	Printing-ink specialty chemicals: regula- tions, economics change mix	Feb	28	58
				Fertilizer use rebounds (chart)	Feb	14	31				
Polystyrene G-P's Painsville, O., PVC resin plant to				Israel's Dead Sea Works plans expan- sion N	July	25	36	Process Equipment Chem Show 1979: CPI's Supermarket	Nov	14	86
be converted to polystyrene resin facility	May	9	13	Jordan will begin building potash com-			40	1979 was a good year, but many think		-	-
Gossamer Albatross, pedal-driven air-	relay	3	13	plex N Liquid caustic prices N Apr 25-27 N	Jan Sept		35	1980 will be as good or better Morgensen Sizer screening equipment	Dec	12	45
plane using plastics composites and film will attempt to cross the English				Markets: Saskatchewan settlement may help ease a squeeze on potash in mid-				will be made in the U.S. by a joint			
Channel	Mar		22	1980s; capacity, production, consump-				venture N	Oct	17	40
Man-powered aircraft crosses Channel . Gulf Oil Chemicals expandable poly-	June	20	27	tion (charts & table)		22	33	Product Development			
styrene facility for Channelview, Tex.;	0		40	to grow N	May	9	39	IMS-PRI search brings inventors and	b.6.	11	41
capacity boost at Marietta, O. plant R Gulf Oil Chemicals moves to resurrect	Dec	5	43	World fertilizer study, IFDC, TVA sees tightening markets (chart)		16	31	marketers together	July	11	41
EPS plant at Channelview, Tex N	Dec	5	17	Potassium Oxide-Fertilizer use rebounds				national policy for innovation N	Oct	24	14
Markets: record volume tightens major plastics markets (charts & table)	Feb	28	15	(chart)	Jan	14	31 36	Innovation: Carter's stance due next month.	Sept	12	18
Mobil to expand capacity N Prices N Feb 7-29, N Feb 14-30, N Mar	May	23	13	Potassium Titanate-Fibers will bid for				Mixed reactions	Nov	7	54
7-32, N Apr 11-29, N May 30-24,				insulation and plastics jobs N	Mar	28	34	novation: Charting a course for in-	Apr	4	38
N June 13-36, N Sept 12-36 N Spain: Monsanto to close some Spanish	Dec	12	32	Powder Metals				Innovation stymied by environmental and safety rules says federal panel	Jan	24	40
polystyrene units N	Dec	19	26	Alcan moving to boost U.S. aluminum powder capacity N		14	17	Laws blamed for innovation lag	Jan	31	19
Styrofoam insulation lawsuit: R. Boyer of Pevely, Mo. names Dow in \$1.65-				Chemically-activated hand warmers based		14		Product responsibility programs: com- panies track chemicals from produc-			
million suit.	Aug	8	19	on simple iron-powder oxidation chem- istry from Japan		e 27	40	tion to disposal	July	4	53
U.S. producers of plastic resins launch new round of expansion projects				Preservatives-Coast Guard probe clears				Product Liability—New programs extend product responsibility	July	4	53
(table)	Sept	5	17	sodium bisulfite in asphyxiation death of two crewmen aboard shrimp fishing				Product liability insurance see Insurance			
rates hydrogen from waste-gas stream N	Nov	21	46	Preservatives see also Nitrates; Nitrites;	Aug	22	37				
Polytechnic Institute of New York— Othmer at Midland meeting: separations				Nitroumines				Production Chemical output off to a solid start N	May	2	49
on a magnificent scale	Oct	31	29					China's chemical output grows, but		_	
Polyurethane — CPSC weighs furniture flammability standard	Nov	14	41	Prices Chemical price picture clouded by un-				government slows development (table) Forecast '79: Mixed fortunes for year	July	25	37
Polyvinyl AcetateEmulsion prices N				certain effect of OPEC oil hikes	July	111	19	ahead-report (charts & table)	Jan	3	25
Apr 18-23, N Dec 5-49 N Polyvinyl Butyral – Monsanto plans ex-	Dec		69	CPI stocks starting to rebound (charts) . Currency: Fluctuating currency ex-		7	16	Great Britain: ICI moves to improve productivity, will cut staff N	May	9	40
pansions R	Apr	18	20	change rates can help, or hurt, over-		12	62	Japanese chemical production N Modest rise forecast for value of ship-	June		40
Polyvinyl Butyrate-U.S. producers of plastic resins launch new round of				seas profits	n .	12	63	ments: Comerce Dept.'s "1979 U.S.			
expansion projects (table)	Sep	5	17	words: CPI executives engered by criticism from COWPS' Kahn		4	31	Industrial Outlook"	Feb	7	17
Polyvinyl Chloride				Iran turmoil shakes world chemical	1			increases shape up (charts & tables)	Jan	17	15
Asian PVC producers plan VCM-buying		28	51	markets (table)	. Feb	21	19	Operating rate for CPI up over-all for the yearMcGraw-Hill Economics Dept.			
Borden, Tenneco plan PVC expansion				Product prices can't quite catch up				report N	July	18	17
projects N Canada: Diamond Shamrock confirms	Aug	22	13	(chart)		g 15	16	Operating rates: over-all operating rates increased	Nov	14	42
joint-venture plant in Alberta will be				Jan 31-22, Feb 14-21, Feb 28-25				SRI sees sharp drop in world chemical		1.4	44
onstream late this year N China contract for PVC plants to	Oct	10	13	Mar 14-22, Mar 28-27, Apr 11-27 Apr 25-26, May 9-22, May 23-23				World industrial growth will slow in	Mac	28	24
Shin-Etsu	Jan	10	21	June 6-25, June 20-31, July 4-27				1979 N	Mar	21	28
plant at Delaware City, Del R	Mar	, 9	21	(letter Aug 29-5), July 18-28, Aug 1-19 Aug 15-40, Aug 29-28, Sept 12-33 Sept 26-31, Oct 10-33, Oct 24-27				Propane—Fill-in for crude: light hydro- carbons (charts)	Nov	14	20
Ethyl Corp. plans PVC compounding plant in Gallman, Miss R				Sept 26-31, Oct 10-33, Oct 24-27 Nov 7-37, Nov 21-23, Dec 5-44		c 19	25	Propranolol Hydrochloride— Heart drug approved for migraine headaches N		2	26
prantin Sammon, miss	Api	11	25	1101 / 07, 1101 a 1 20, Dat 0 37		. 18		approved for impreme measures N	THE STATE OF	,	30

Propylene				Strikes	Esh	21	21	Fusion research center will be set up at	P-6	7	20	
BASF will pilot process to make ethy- lene and propylene from methanoi . N	Aug	1	27	Boise Cascade workers settle	Feb	21	21	Oak Ridge N GCFR breeder design promises reactor	Feb	,	36	
Companhia Nacional de Petroquimica to supply propylene to unidentified U.S.				paper strikes	May	16	23	safety N Japan: CANDU reactor gets 'no' vote;	June	20	56	
firm N	June		30	at Columbus, Miss. site N	June	27	17	ATR type will be developed N	Aug	22	36	
OECD sees slow growth through 1985 Petrochemical production increases but	Jan	24	14	Pulse energization puts new life into electrostatic precipitators N June 27-31.	July	4	40	Japanese, Germans will trade reactor know-how N	Feb	21	37	
some major product categories have	0-4	21	15	Pumps				MIT physicist Coppi touts compact		-		
been 'on allocation' (chart)	Oct		15	Chem Show exhibitors	Nov	14	68	reactor for quick jump on nuclear fusion N	Jan	17	28	
6-26, N Nov 21-24 N	Dec	12	32 37	Magnetic heat pump achieves 60% efficiency in NASA tests N	Mar	28	34	Monsanto 4-NDPA reactor at W.G.				
Production figures for July 1979 N Production up N		29	33	Purchasing			•	Krummrich plant in Sauget, III: blast won't disrupt supplies	Aug	8	19	
Socal and Cetus to construct pilot plant for biological conversion of ethylene				NAPM says business was off in Octo-				NRC calls nuclear reactor safety study unreliable	Jan	31	23	
and propylene, N	Oct		40	ber N Tenneco computerized order-processing	Nov	7	28	Sulfonation: Chemithon Impact Jet re-	Jan	31	20	
Supplies are snug N	May	16	30	and inventory-control system called				actor makes a pitch for sulfonation applications	Feb	28	49	
Protein				TOPICS	May	23	16	Reagents-Enzymes speed blood testing	Mar	28	40	
Fabricated foods market gaining	Apr	18	38	Purdue University Brown, Herbert C. wins Nobel Prize in				Recreational Specialties—Chemicals join in summer fun	Aug	22	42	
Food markets pick up for protein additives	Aug	1	36	chemistry	Oct	24	19	Refining				
Mariculture system to produce plant and animal protein.	Mar	21	36	Mold research to boost fermentation yields	Aug	8	42	Alaska Petrochemical contract for re-				
Nail polish business: new ingredients				Pyrethrum				finery and petrochemical complex at Valdez, Alaska R	Aug	8	22	
give boost to \$150-million/year busi- ness	Aug	8	41	CSMA meeting topic	May	23	34	Arco slates \$100 million for fluid cat				
Single-cell protein process: Linde says	-			Pyrethrum chrysanthemum flowers: washed-out crops cause import slump				cracker at Philadelphia refinery N Aromatics: chemicals and gasoline com-	May	30	13	
using oxygen instead of air raises single-cell protein yield	Aug	1	28	(chart) Pyrites-Fool's gold may boost the	Jan	17	42	pete for aromatics	Apr	18	31	
Upjohn produces large protein-chicken				Pyrites—Fool's gold may boost the amount of liquid derived from coal. N	Aug	8	31	refinery damaged by fire	Feb	21	26	
ovalbumin—by recombinant DNA tech- niques	Jan	3	18	Pyrolysis-Scientific Design will evaluate		-		Canadian refiners face strike threat N Cancer among refinery workers at the	Feb	14	44	
				a commercial hydropyrolysis plant N	Dec	5	66	Gulf and Texaco complexes at Port				
Public Relations And now a message for your sponsor				•				Arthur, Tex. to be studied	July	11	18	
-Viewpoint	Mar	21	4	Q				(charts & tables)				
CMA plans stronger public relations— 29th semiannual meeting	Nov	28	22	Qatar-Financial participation in France's				Part I: A \$600-million market in cars and refineries	Mar	28	42	
Corporate-issues commercials: Kaiser				CdF Chimie to be enlarged N	May	23	30	Cities Service's fire and explosion at				
takes issue with television networks on corporate-issue ads	June	27	24					Lake Charles, La., refinery knock out process units.	Oct	24	22	
Educational effort by business called	Aug	20	49	R				Coastal plans to boost refinery capacity	0	20	24	
Foreign-owned firms looking at U.S.				- 11				at Corpus Christi, Tex	Sept	20	21	
Hooker plans public relations campaign	May	30	65	Radiation Backfilling mines with uranium tailings				tions at Commerce City, Colo. refinery				
to boost sagging image	June		18	seen as disposal solution	Feb	28	21	in investigation of Oct. 3, 1978 explosion	Jan	24	17	
Hooker tells its side of the story Opinion polls give chemicals bad rating .	June		20	EPA working on uranium drinking water standard	July	25	22	Crown Central Petroleum catalystic re- former onstream at Houston refinery R	Dec	5	43	
-Letters	Mar		5	Phosphate slag studied as radiation				DOE is readying shale-oil loan guaran-	Dec			
Other views: Image is a problem but there is still time to act, Earl H.				source	Jan	31	18	DOE wants refiners to make less gasoline	Nov	28	23	
Harbison, Jr	June	6	5	Radioactivity Ion exchange system will treat radio-				more home-heating oil: Justice Dept.'s				
Other views: The media are in the castle to stay', Irving S. Shapiro	Oct	17	5	active waste at Three Mile Island N	July	18	42 .	Antitrust Dept. is unhappy N Exxon Baytown, Tex., fire damages a	May	30	14	
People are still high on science and				Mallinckrodt's missing radioactive drugs sought by NRC	Aun	15	18	resid-refining unit	Oct	24	22	
technology—Viewpoint	Jan	24	5	Railroada	, nog		10	Exxon's Bayway, N.J. refinery fire and explosion.	Mar	28	24	
-Viewpoint	Feb	28	5	Chemical firms plan hazardous-materials				explosion			-	
On the CW Ninny Award: point and counterpoint—Viewpoint	May	23	5	accident-data system N Derailments	July	18	34	GAO advises look for oil, don't build refineries	July	18	25	
-Letters Mar 14-5, Apr 18-5, May			5	Chlorine danger forces evacuation				Indiana Standard's Whiting refinery hit				
UC's Sneath warns on using 'muscle' to	Aug	'		after derailment at Mississauga, Ont Derailments near Holland, Mich., In-	Nov	21	20	by fires	Feb	21	26	
set policy	Feb	. 7	20	wood, Ind. and Molino, Fla. cause				wood Development's Bayport Indus-				
dence	Mar	7	5	evacuations	Nov	21	20	trial Park, near Houston: Citizens group will try to block Texas re-				
Puerto Rico: problems in paradise—report. Meyer Lurie (charts & tables)	Anr	11	56	view, Fla. causes evacuation		18	18	finery	July		26 18	
-Letter			5	Orthochlorophenol spill from derailed train in Sturgeon, Mo.: Dioxin is				Italy: Kuwait puts lien on SIR's Sardoil	Mar	14		
				found in cleanup workers' blood	May	23	22	oil refinery	Aug	15	29	
Pulp & Paper American Paper Institute annual meeting:				Suits boost claims for dioxin-spill damage		25	21	Kaiser refinery revamp at Baton Rouge, La. shelved	Oct	17	17	
Growth trends in paper capacity				Diesel fuel: Emergency allocations pinch		e 20	18	New refining capacity, but is it enough? McGraw-Hill Dept. of Economics				
API told Justice will get tough with	Mar	21	22	some shippers		6 20	16	study (table)	Aug	29	20	
polluters	June	e 20	27	shippers eye costs	July	/ 18	52	NPRA's 1979 fuels and lubricants meeting: Refiners seek supply-demand				
AWPPW members reach contract agree- ments	Feb	28	24	charges N	July	/ 11	23	answers	Nov	14	52	
Chemical Week 300-report. Homer G. Starr (tables) Feb 28-40, Apr 25-41,				Emergency chemical shipments are not given priority status		/ 18	33	OCAW rejects oil firms' first pay pro- posals N	Jan	3	13	
May 30-48, Aug 29-38	Nov	21	35	FRA orders Lousiville & Nashville RR		,		OCAW imposes news blackout on ne-	-	-		
Congeneration project in Green Bay, Wis. hits snags		15	19	to lower speed of all trains carrying hazardous materials R		14	18	gotiations with refinery workers, , R OCAW seeks reopener clauses in con-	Jan	10	21	
Crown Zellerbach plans papermill ex-				FRA releases list of worst U.S. rail-				tracts with refiners	Jan	17	18	
pansion at Wauna, Ore N EPA's proposal on PSDs 'turn new-	Nov	21	13	roadsN Freight rates see Freight Rates		y 23	14	Oil and chemicals. Era of peaceful co- existence? — report. Meyer Lurie				
source review on its head', paper-				Hazardous materials see Shipping-				(tables)	Oct	17	70	
makers concerned over air-pollution control law's limitations on industrial				Hazardous materials Inter-Industry Task Force on Rail				rising	Oct	17	78	
expansion	Dec	12	52	Transportation of Hazardous Materials disbanding, with many goals reached		28	57	Pittston still plans refinery in Eastport, Ma	Feb	7	22	
G-P's capital-spending program: \$220 million on eight capital projects N	Aug	9 8	13	Liquid piggybacking	Ma	y 30	60	Shell Oil considering modernization pro-	1 00	,		
Hercules-Solvay joint ventures to com-				Midwest blizzard slows shipments N NTSB study scores railroad safety pro-	Jan	24	37	gram for its three West Coast refineries, at Wilmington and Martinez, Calif.,				
mercialize polyolefin pulps R Hitachi Zosen mechanical pulping pro-	Ret	21	26	grams for hazardous materials	. Ap	r 11	23	and Anacortes, Wash N	Sept	t 26	13	
cess to make newsprint from bagasse				Russia: rail transport problems curb	Au	9 22	44	Shell patent says tin counteracts heavy metals in refinery cat cracking N	Jan	10	34	
is available			27	Soviet output				Shell's Deer Park, Tex. complex: fire				
plex to Southwest Forest Industries N	Jan	31	13	get railroads to go in snow	. Jar	17	25	forces cutbacks	2eb.	t 12	19	
Lexter slates polyolefin pulp plant for Deer Park, Tex N	Dec	12	17	Rayon Avtex Fibers chemically crimped rayon	1			of explosion and fire in 1977 at Port Arthur refinery	Jan	31	21	
Lignin specialties get a \$5-million boost. Lumber companies are accelerating	Jun	ne 20	42	set for commercialization N	Ap	r 4	29	Union Pacific plans expansion at Wil-		-		
their buildup in pulp and paper				Italy: Snia Viscosa plans four plant closings this month N	Jul.	y 11	36	mington, Calif. refinery R Reforming—Catalysts report, Donald P.	Feb	14	18	
(charts & table)	Aug	g 1	13	New products, better cost comparisons	5			Burke (charts & tables)				
by Indian firm N	Sep	ot 5	69	are giving rayon a new image (charts) . Prices N May 16-30 N	. Jur		27 49	Part I: A \$600-million market in cars and refineries	Mar	28	3 42	
 Negis Paper expansion program to boost production by 1982 at Pensacola. 				Reactors				Part II: Chemicals make it a \$1 billion				
Fla., Houston, Tex., and Alberta.			17	Combustion Engineering gets fast-				a year market	Apr	4	46	ĺ
Canada	1	r 4	17	breeder design contract from Rockwell International N		v 14	51	Refractory Materials Chemical Week 300—report, Homer G.				
water pollution violations at Oconto Falls, Wis. pulp mill		17	22 .	Dow Chemical's Midland, Mich, nuclear	r			Starr (tables) Feb 28-40, Apr 25-34,				
, peop	Jell	/	44 .	plant studied for changes	. Ma	y 2	18	May 30-46, Aug 29-39	No	v 21	1 36	I

					CHEMICAL WEEK INDEX January - De	cembe	r, 197	ny .					
	FTC orders Kaiser to divest two refrac-				NBS facility will store environmental				Hungary's potential for plastics exports				
-	tory plants bought in 1974 N Reid, Toy, F., Eastman Kodak executive,	June	13	14	samples for future comparisons N NIH's peer-review system for handing	Dec	12	50	grows N Markets: record volume tightens major	Aug	1	32	
	v-p and general manager of Eastman				out grants to be surveyed by GAO . N	Oct	10	14	plastics markets (charts & tables)	Feb :	28	15	
	Chemicals Div.: His forecast at Eastman —a 'good year' for 1979	June	6	48	Nobel Prize (1979) in chemistry to synthesis pioneers Herbert C. Brown				Monsanto abandons phenolic resin price rise N	Nov	7	28	
					and George Wittig	Oct	24	19	Prices N Jan 10-24, N Feb 28-27,			28	
1	Research Airborne laser detects spilled oil	June	12	29	ics gain on glass	May	9	30	N June 13-36, N July 4-28 N Printing-ink specialty chemicals: regula-	Oct		-	
	AAAS meeting: joint corporate R&D				OTA sets up list of long-term objectives	Jan	24	10	tions, economics change mix	Feb :	28	58	
	projects called 'ineffective'	Jan	17	29	OTA study will look at applied genetics.	Nov	14	23	chases Cargill alkyd resin plant in				
	tional meeting zeroes in on environ-				Oil from algae: Pennsylvania State Univ. researcher Engel develops algae-to-oil				Philadelphia	July	25	24	
	mental and energy developments Antifoulant research	Sept		44	process using hydrogen Olin develops cluster-like silicate esters	July	18	43	plastic resins launch new round of	Comt	5	16	
	Aspirin: can aspirin cut the risk of heart				that withstand water	Mar	7	37	expansion projects (table)	Sept	7	8	
	attack? Results of several studies, due out early next year, should clear up				Other views: Business and government: an alliance for growth, Edward Donley.	July	18	5	UC to double capacity of phenoxy resin plant at Bound Brook, N.J N	May	2	13	
	questions	Oct	3	52	Other views: Do we really need a chemi- cal industry? Paul Oreffice	Oct		5	Respirators		-		
	shift to richer catalysts	May	16	44	Pittsburgh Conference focuses on re-				NIOSH warning leads to suspension in				
	Biomass to ethanol without fermenta- tion: Experimental technology for				R&D grants to big firms are stifling	Mar	14	39	sales of four models N U.S. Steel and OSHA agree on respira-	May	16	18	
	turning corn husks, rice hulls and pine trees into ethanol	Nov	29	38	small ones House report says N R&D spending: Carter makes pitch for	Jan	10	23	tors for coke-oven workers N 13-cis-retinoic acid—NCI researchers re-	Mar	21	38	
	Biomedical research expansion planned	1404	20	00	federal R&D support N	Apr	4	18	port success with acne drug N	Feb	21	18	
	by Monsanto: cooperative research pro- ject with Canadian partners planned	Oct	31	17	R&D spending: Chemical R&D tabs rise, pace slackens—NSF report (table)	Apr	18	32	Retirement				
	California controversy imperials research at two federally-funded labs	Dec		73	R&D spending: Chemical R&D tabs will				Early retirements are still a growing				
	Canada-Venezuela sign oil recovery				increase by 10% in 1979—McGraw-Hill survey; NSF study (table)	May	23	36	Study says most want to keep working.	Jan	17	34	
	R&D pacts N Cancer: Short-term tests for cancer not	June	13	40	R&D spending: Federal budget (table), . R&D spending: NSF predicts 1980	Jan		14	Personnel managers are skeptical Rhodium—Huels will switch to low-	Mar	28	32	
	yet perfected	June	13	31	R&D spending in U.S. will top \$57				pressure, rhodium-catalyzed oxo pro-				
	Cancer drug from Monsanto: NED 137 N June 27-31	Aug	1	29	billion N R&D spending: NSF report says nation's	May	30	14	cess N Rimmer, Jack, head of W. R. Grace's	Apr	18	30	
	Cancer see also Cancer Chemical engineering graduates are in				universities play key role in basic		04	40	Technical Products Group: He aims to	Jan	40	52	
	short supply, industry finds	Nov	14	78	R&D N R&D spending: NSF says industrial	Jan	24	10	make his big group bigger		10	52	
	CIIT moves into new labs in Research Triangle Park, N.C.: Golberg's goal is				R&D rose 11% to \$29.9 billion in 1976-1977 N	Mar	28	18	selling Vacor rodenticide	May	30	22	
	to make CIIT a center of excellence in	July	25	53	R&D spending: U.S. R&D handled over-				registrations of Vacor rodenticides . R	Sept	28	69	
	toxicology	July	20	55	seas is rising faster than that in U.S. N R&D spending: U.S. R&D spending will	May	16	43	Roland, Robert, president of Chemical Manufacturers Assn.: He changed more				
	conference zeros in on coal-gasifica- tion processes (tables & diagram) ,	Aug	8	32	top \$50 billion in 1979 N	Jan	3	34	than the name	Oct	3	56 13	
	Contraceptives: competition for 'the pill'		-		Roche Australia, Roche Analytical Services, analytical laboratory R	Nov	21	22	Nooning Grandiss—GAF expansions	may	4	13	
	shapes up in lab; injections, implants now under study release drugs slowly,				SRI's one-step silicon process could slash solar cell costs N	Sept	t 5	76	Rosin				
	eliminating peaks	Oct		51 27	Saxas hair-scanning device tracks trace				Naval stores market: International Naval Stores Conference	May	9	24	
	Cyanoacrylates seek role as surgical				elements	Sep	t 12	53	Naval stores markets take healthy				
	adhesives	Aug	29	51	ing material developed by Ovshinsky could yield low-cost solar cells; DOE				Production up N	May Dec	5	24 49	
	DNA is on the way to chemicals Du Pont joins the DNA race	Sept May		34 18	to consider funding	Jan	3	36	Worldwide rosin market remains tight- Outlook from Walter L. Cleaver, Sr.,				
	HEW relaxes rules for gene-splitting				Solar cell probers focus energies on cost cuts	July	11	30	president, PDM Trading, Inc	Oct	3	21	
	research More firms join the DNA race	Jan June	27	18 32	Specialties lure chemical market re- searchers		21	40	Rubber				
	-Letter	Aug	1	6 22	Summit nations discuss energy R&D				Chemical Week 300-report. Homer G. Starr (tables) Feb 28-41, Apr 25-43,				
	NIH panel gives nod to DNA work on				funding N Synfuel program draws fire: Rand study	Oct	31	30	May 30-51, Aug 29-40	Nov	21	42	
	Research teams use recombinant DNA	Dec	19	22	warns of cost overruns		18	22	Goodyear uses microwaves to devulca- nize rubber N	May	23	35	
	to make growth hormone	July	18	25	of companies' executives (charts)		18	20	India's CPI is stalled by political crisis				
	Searle makes flu virus antigens in bacteria	May	30	20	Synthetic fuels see Liw Fuel-Synthetic fuels				(tables)	Sept	19	36	
	Du Pont's Kane seeks disease preven- tion	Dec	19	21	Synthetic oil: tapping the gopherweed Texas Instruments' silicon-based system	Dec	12	53	Energy and General Workers Unions cites danger to rubber workers N	Mar	28	37	
	EPA did not exceed its authority by				promises to reduce cost of solar cells,N		y 30	55	Labor contracts: countdown to rubber	F-4-			
	asking Dow to file health, safety and other studies rules Philadelphia Court .	Sept	26	21	Textile researchers seek new technique for separating water mixtures (flow-				Mobil shows how ZSM-5 family of	Feb	14	33	
	Ethanol: fermentation studies try to boost yields, cut process time	Aug	8	42	sheets)		e 6	42	zeolite catalysts make gasoline from big molecules N	Oct	10	42	
	Fire ants fight cotton pests, researchers				Thermoplastic elastomers: research ex- tends uses into auto and adhesives				Mohawk Rubber employees—out of	000			
	Fusion research center will be set up at	July	11	22	markets Thin-layer chromatography is being	Jun	e 6	38	work since Akron tire unit closed— want to buy and run the plant	Jan	17	34	
	Oak Ridge N	Feb	7	36	adapted to detect mutagens and				Prices: silicone rubber N Prices: two synthetic rubbers N	Feb	28 18	27 26	
	Indian tree extract repels a wide range of insect pests from crops	Aug	29	50	Toxic levels on sprayed farmlands	Feb	14	41	Reichhold Chemicals Hackettstown,	Apr	10	20	
	Industry seeks university R&D contacts, but patent issue is barrier	Feb		38	measured with new device N Toxicology Forum: needed—better stud-	No	v 14	51	N.J., plant doubles capacity for making Solprene rubber shoe-sole				
	-Letter	Mar		5	ies of links to cancer	Feb		39	materials	Oct	24	24	
	Innovation: ACS asks government to set national policy for innovation N	Oct	24	14	Toxicology labs: new labs open N Trees: rapid tree-growing may make		28		add new life to market	May	16	41	
	Innovation: Carter's innovation stance	Sept	12	18	forests major source of CPI products UC closes corporate research laboratory		31	46	Thermoplastic elastomers: research ex- tends uses into auto and adhesives				
	due next month	Nov		54	in Tarrytown, N.Y N	Jan	10	33	markets	June	6	38	
	Innovation: charting a course for innovation. Gordon M. Graff	Apr	4	38	UN calls for research in pest-control methods N		y 30	27	(chart & tables)	May	30	16	
	Innovation stymied by environmental and safety rules says federal panel		24	40	Uranium-enrichment technique called the Haga process: inventor Gazda				Tires see also Tires Uniroyal fights contract debarment on				
	Laws blamed for innovation lag	Jan	31	19	claims new process cuts cost of nuclear				grounds that it discriminated against	b.b.	**	20	
	Integrated lab and office data systems save researchers time, money (chart)	Oct	10	47	fuel by 90% (diagram)		ot 5	73	women and minorities	July	11	20	
	Japanese companies step up technology				for cattle feed	Oct		43	operation purchased by Equities Hold- ing Corp	Mar	21	26	
	Jojoba plant: Researchers seek new	Dec	5	66	-Letter Woodward, Robert BNobel laureate		v 7	8	URW, Firestone T&R sign non-strike				
	cosmetics, pharmaceuticals	Feb Mar		31 5	Woodward dies at the age of 62	July	y 18	44	pledge	Feb May		21	
	Laser probe permits analyses of chemi-								URW reaches settlements with three of	June		33	
	cal reactions as they occur N Lignin sulfonates, wood chemicals, in-	June	20	56	Resins ABS see Plastics				Big Four		2.0	-	
	ject new life into tired oil wells Live-cell inplants: encapsulated pancreas	June	20	65	American Hoechst Mount Holly, N.C.,	84		25	be hit for guideline violation	July	4	20	
	cells may help in treating diabetes	Apr	25	53	resin plant capacity to be doubled . R Ashland Chemical Calumet City, III.,		v 7	25	Rumin				
	Low-cost catalysts called "face-to-face" porphyrins for fuel cells could widen				resin plant destroyed by explosion last year to be rebuilt		r 11	25	Ammonia dumping charged by U.S. producers	July	18	24	
	their uses N MHD: Control Data to market Soviet	Sept	5	76	Bisphenol A will grow with polycarbo-				Producers ready ITC positions	Aug		23	
	MDH technology in the U.S N		19	70	nates (table)	Dec		50	U.S. ammonia firms carry complaint to ITC.	Sept	5	17	
	Maybe things aren't so bad after all— Viewpoint	Dec	19	4	double this year, Goodyear says N Epoxy formulation for windshield re-	Jan	17	35	market	Oct	10	18	
	Midland Conference seeks ways to bridge industry/academic gap, N			38	pair	Apr	r 4	45	Brezhnev complains about idle chemical				
	Midland meeting aim: tilting R&D				General Electric aims new epoxide resin at polyester and polyurethane markets				Chemical firms will miss production		5	51	
	upward	Oct	31	29	N		ne 6	26	targets in 1979 N	Nov	7	48	

CPI output is falling behind goals				Supreme Court will review ruling				Unions win round in court fight			
N May 23-30 N	July Apr	25 25	36 25	against benzene standard N Justice argues for benzene rule	Feb	30	14 22	against wage-price guidelines	June	6	19
Fertilizer plans	- pr	20		High Court to hear benzene case. ,	Oct	3	18	COWPS	June 2	20	22
could be a pretty good year-report (charts & table)	Jan	24	23	High Court hears benzene arguments. Brain-tumor deaths at UC's Texas	Oct	17	53	Rubber firms may be hit for guide- line violation	July	4	20
Italian chemical firms sign pacts with	0011			City, Tex. facility studied	Feb	28	22	Court rules President may keep federal			
Russia N MHD: Control Data to market Soviet	Nov	7	48	NIOSH finds more brain cancer among chemical workers at UC and				contracts from guideline violators. N Hess gets off COWPS noncompliance	July	11	14
MHD technology in U.S N	Dec	19	70	Monsanto Texas plants	Mar	14	19	list	July 2	25	19
MHD power plant at Ryazan	Aug	22	44	Widows of two employees file suit				COWPS still monitors profit-margin	Aug		14
Oil recovery: Enhanced (or tertiary) recovery investigated N	July	18	42	over husbands' deaths from brain tumors	Apr	25	25	COWPS readies revised wage-price	Aug	1	14
Oil-recovery efforts will get a boost				Five more tumor cases found at				guidelines	Aug '	15	18
from nonionic-surfactants plant N Oil sales to Italy slowed N	Nov	28	42 31	Carbide	Aug	8	22 13	Industry wants leeway on wages and prices	Sept	12	18
Oxy fertilizer deal	May	30	18	Cancer policy is attacked before it's				Squibb found to be out of line with			-
Potash market	Aug	22	34	Out	Dec	12	18	price guidelines N COWPS, Goodrich agree on com-	Sept '	19	18
Rail transport problems curb Soviet output	Aug	22	44	Cancer: OSHA won't issue final car- cinogens policy before middle of				pliance	Oct	3	19
	-			next month N	Dec	19	18	Pay Advisory Committee (PAC): Busi-			
•				Chicago seminar: Health issues dom- inate	Sept	19	26	nessmen cool to new wage commit- tee	Oct	10	24
3				Chlorine exposure standard: stricter				PAC: Wage panel has two weeks to			
Safety Aerosols see Aerosols				standard delayed N Ceiling set on exposure to chlorine	Feb		18	set guides to wage-increase	Oct	24	19
Automobiles see Automobiles				Court stays enforcement of OSHA's				guidelines N	Oct	31	13
Borden will appeal in worker-informa-	May	20	21	revised standard N Coke: API asks Supreme Court not to	Oct	24	14	Squibb in complete compliance on prices says COWPS	Nov	14	42
Chemical firms plan hazardous-materials	rendy	30	21	review standard R	Jan	31	21	PAC: Division developing over pay			
accident-data system N	July	18	34	Cost-benefit analyses opposition reaf-	Mari	22	4.4	board stance	Dec	5	28
Du Pont fungicide Benlate cleared for use if workers wear protective equip-				firmed	May	23	14	Survey sees no end to boosts in cost of			
ment N	Sept	12	14	\$100 to settle dispute over Nitro,				selling	Mar	28	31
Du Pont's Kane seeks disease preven- tion	Dec	19	21	W. Va. plant	May	16	27	Salt — Australian producers prospects brighten	Sept	12	42
Earthquake warning for chemical plants				charges against OSHA violators	Aug	15	21				
Explosions see Explosions	May	9	34	Is there a workplace cancer epidemic? OSHA seminar hears both sides	Sept	20	AA	Saudi Arabia Economic growth slowdown seen in			
Fetal safety controversy: cases at				-Correction	Oct	3	44	Rand Corp. study	Jan	31	18
American Cyanamid and Allied Chemi-	i.e.	10	18	-Letter (correction)	Nov	7	8	Industrial-gas venture: UC to make	Jan	17	13
NIEHS studies effects of four chemi-	Jan	10	10	Labor Dept, taken to court over dis- closure of workplace hazards N	Oct	3	14	investment N Japan-Saudi methanol unit gets new	Jun	.,	10
cals on the fetus	Jan	31	21	Labor rallies to resist attempts to				investors N Oil contract with Italy cancelled N		21	28
OSHA seeks \$24,000 in fines from Cyanamid	May	16	25	weaken OSHA N Lead standards delayed N	Apr	7	18 14	Pullman Kellogg picked to design	Dec	12	56
Cyanamid is charged in sterility case		17	23	Court stays enforcement of OSHA				fertilizer plant N	Sept	5	69
Fires see Fires Flammability standards see Flame Re-				lead standard N Lead-standard appendices N	Mar	7	14	Shell awards hydrogen plant contract to Uhde GmbH R	Aug	1	18
tardents				Procedures for response to employee	Oct	31	14	Shell/Exxon projects in Saudi Arabia			
Flammability testing: Ontario Research Foundation's DiNuccio describes new				complaints about hazardous working			**	mired in negotiations N	May	9	13
system at Canadian specialties meeting	Oct	31	34	conditions will be changed N U.S. Steel, OSHA agree on respirators	Aug	15	14	Scotland			
Hazardous materials see Shipping-				for coke-oven workers N	Mar	21	38	Borg-Warner Chemicals methyl meth-			
Hazardous materials Hazardous tasks: Supreme Court will				OSHA and NIOSH may be patching up differences. N	May	2	14	acrylate butadiene styrene resins plant onstream at Grangemouth N	June	13	40
rule on whether workers may refuse				differences N Pesticides see Insecticides—Pesticides		-		Gas-separation plant delayed N	May	9	40
hazardous tasks	Oct	10	14	Pipeline safety see Piping Pollution control see Air Pollution;				Construction still in doubt: Shell-and Esso fight for U.K. petrochemical			
and safety rules Jan 24-40	Jan	31	19	Environment; Water Pollution				base	July	4	48
Insulation see Insulation Interagency Task Force on Workplace				PBBs see Polybrominated Biphenyls				U.K. gas-separation unit is okayed,		22	35
Safety and Health recommends the				PCBs see Polychlorinated Biphenyls Product responsibility programs; com-				faces more delay N Gas-separation unit is challenged a-	Aug	22	35
use of economic incentives	Jan	3	19	panies track chemicals from produc-				gain N	Oct	3	31
International Federation of Chemical, Energy and General Workers Unions				tion to disposal	July	4	53	Screening Equipment—Joint venture will make Swedish particle sizer in the U,S			
cites danger to rubber workers N	Mar	28	37	Regulatory Council calendar lists rules				N	Oct	17	40
Investments in worker safety and health: McGraw-Hill Economics Dept.				that will take effect in next six months	Mar	7	14	Scrubbers—TVA/EPA cleanup pact sup- ported by White House	Mar	21	25
survey (table)	May	30	59	Docket of proposed 1980 rule-making	IVIAI	,	14	Settlement may get tied up in court	May	2	18
Italy: Montedison told to close some	D	10	20	actions	Dec	12	19	TVA admits to error on steam plant	A	•	
units at Priolo, Sicily, complex Japanese study links glass-fiber dust and	Dec	12	26	Safety-glazing market may open, if CPSC weathering tests for plastics are				scrubbers	Aug	8	21
lung disease	Jan	3	18	eliminated	Nov	21	19	Sealants			
Kepone see Insecticides—Pesticides Legislation would set criminal penalties				Steelworkers push for stronger federal policy on safety and health N	Sept	12	14	Chemical Week 300-report. Homer G. Starr (tables) Feb 28-39, Apr 25-33,			
for concealing safety risks N	Aug	8	14	Terrorism see Terrorism	зери	12	14	May 30-48, Aug 29-36	Nov	21	42
NIOSH Arsenic warning due soon	July	10	24	Three Mile Island, Pa. nuclear accident:	A	11	22	GE's silicone sealants feature paintabil-	Jan	31	36
Asbestos: tests on home hairdryers			24	More doubts about nuclear power —Letters June 13-5	Apr		22 5	ity, low odor N	Jan	31	30
show small amounts of asbestos N	Aug	22	14	Toxic Substances Control Act see Law				Selling			
Benzene gloves defective, report finds . Benzidine-based dyes may be car-	Oct	31	20	Transportation safety task force dis- banding, with many goals reached	Feb	28	57	Piggyback sales beef up French chemical firms	Aug	1	30
cinogenic N		21	14	Union program to study workplace			•	SACI Survey sees no end to boosts in			
NIOSH asks end of commercial use.N Brain-tumor deaths at UC's Texas	Dec	5	65	hazards N Unions stressing health issues in new	Sept	19	18	cost of selling	Mar	28	31
City, Tex. facility studied	Feb	28	22	chemical industry contracts	Apr	18	33	files for patents on thin-film semicon-			
NIOSH finds more brain cancer among workers at UC and Monsanto				U.S. Criminal Code revision contains new felony offense called "endanger-				ductor materials that can be used to	New	7	47
Texas plants	Mar	14	19	new reiony orrense called "endanger- ment"	Dec	12	26	make low-cost photovoltaic solar cells N Semiconductors—Tiny components—big	Nov	,	4/
Widows of two employees file suit				WHO studies exposure levels for heavy				markets (table)	Nov	21	15
over husbands' deaths from brain tumors	Apr	25	25	metalsN	June	27	36	Separation			
Five more tumor cases found at				Salaries				Elbow-separator evaporator	Dec	5	68
Glass fibers: mortality study of	Aug	8	22	Annual retainers paid to outside di- rectors of 90 of the top 100 U.S.				Hollow-fiber device separates hydrogen from waste-gas streams N	Nov	21	46
workers exposed to glass fibers,	Jan	3	18	industrial companies R		29	49	Othmer at Midland meeting: separations			
HEW compiling list of workers ex- posed to dioxin N	Aug	15	14	Chemical engineering graduates are in short supply, industry finds	Nov	14	78	on a magnificent scale	Oct	31	29
Respirators: warning leads to suspen-	ruy		14	Chemical engineers: Search for minority				Separation equipment: Chem Show exhibitors	Nov	14	68
sion in sales of four respirator	Mari	. 10	18	ChEs is heating up		8 27	47				
models N Standards to protect workers from	may	16	16	Executive compensation: highest-paid officers of U.S. chemical companies;				Shale Oil Ashland process converts shale oil into			
hazards in confined areas called for.N	Dec	19	18	SEC disclosure rules require con-				jet fuel N	June	13	23
Union Carbide's South Charleston, W. Va., chemical plant: NIOSH				spicuous display of executive pay details (table)	Apr	25	56	Brazil plans construction of oil-from-	June	27	36
investigates cancer rates	Aug	29	24	Starting selenes for scientists and en-				shale plant N Canada: Oil-recovery R&D pacts are			
Nuclear vs. fossil fuel safety record comparison suggested—Letter	One	10	5	gineers hit a new high in 1979 N Wage-price guidelines	Dec	19	18	signed N	June	13	40
Nuclear safety see Atomic Power;	501	10		COWPS sets wage-price rules	Jan	10	17	Colorado study says shale-oil producers will have more than enough water		8	21
Uranium OSHA				GAO says contracts can't be withheld from wage-price offenders				Colorado tract C-A: Rio Bianco sets			-
Amvac Chemical cited for failure to				Chemicals are targeted as 'trouble spot'		14	18	surface retort for oil-shale test N Commercial retort for vertical modified		26	46
report DBCP use	Feb	7	18	under wage-price guidelines	Mar	14	17	in-situ oil-shale operations: DOE pro-			
Awards contract for study of generic pesticide standard N	Auc	22	14	COWPS clamps down on price standard. Windfall' tax: lines drawn	Mar		21 17	poses crash program R	Oct	10	28
Bell at AAAS meeting discusses worker				Carter outlines proposed plan	. May		21	Court rules oil shale could be defined as a "valuable mineral" R	Feb	7	22
and consumer protection	Jan		29 19	Price guidelines begin to pinch an al- ready cost-burdened CPI		, 9	17	DOE has \$3.5 million to spend to de-		11	25
activation source populations court.	our!	9		today outcommends officers and	ivial	9		velop novel ways to recover shale oil.N	July	11	25

				CHEMICAL WEEK INDEX SHIDEY-DE	eminuer	, 10/8	•				
	Nov Dec	28	23 26	SRI's one-step silicon process could slash solar cell costs N	Sept	5	76	California controversy imperils research at two federally-funded labs	Dec	19	73
Electrical field may help recover oil				Solar cell probers focus energies on cost	July		30	DOE to spend \$21.5 million for photo- voltaic projects N	June		31
Heavy-oil recovery: enhancing the out-	Oct		38	Texas Instruments' silicon-based system promises to reduce cost of solar cells	July			DOE to sponsor first solar facility linked to a chemical plant N	Sept	5	76
Israelis test lasers for extracting hydro-	June		24	Silicon-fluorine alloy developed by	May	30	55	Dow's Dalton, Ga. plant may use solar power to generate steam N	Jan		28
Leases: Supreme Court to review deci-	Jan	24	38	Ovshinsky could yield low-cost solar	.lan	3	36	GE gets contract to design prototype of			48
sion rejecting Interior effort to invali- date Western oil-shale leases	Oct	10	26	cells; DOE to consider funding Silicon Nitride-Australians show silicon	-			Nitrogen fertilizer produced by solar	Sept		-
MIT study says water needs do not limit potential for synthetic fuel N	Jan	17	27	nitride works as bone and joint implant.	Sept	26	69	SRI's one-step silicon process could	Aug	8	31
Occidental Petroleum retorts to pro- duce oil shale in situ: project moves				Silicones GE's silicone sealants feature paintabil-				slash solar cell costs N Silicon-fluorine-hydrogen semiconduct-	Sept	5	76
forward	Oct	24	24	ity, low odor N Great Britain: Dow Corning to receive	Jan	31	36	ing material developed by Ovshinsky could yield low-cost solar cells; DOE			
process aims to recover more natural gas from shale	Jan	21	37	\$40.7 million subsidy for South Wales silicone products plant N	Sept	19	17	to consider funding	Jan	3	36
Shale oil as a jet-fuel source studied	Sept	5	22	Industrial silicone prices N Rubber prices N	Oct		54 27	cuts	July	11	40
Synthetic fuels see Fuel Utah oil shale: High Court move will				reason press				foothold in CPI plants this year Solar-powered primary reformer for	Feb	7	37
delay White River Oil Shale Project Shampoos-Cosmo Expo session on hair-	June		28	Silver Chilean deposit	Apr	4	26	ammonia plant operated by Valley Nitrogen Producers, Inc	Sept	12	27
Shelby, Anthony O. ("Tony"), president	May	2	50	Prices N		25	33	Texas Instruments' silicon-based system promises to reduce cost of solar cells.N	May		55
of American Thermoplastics Corp.: He learned the resin business 'language'	Dec	5	88	Singapore Asian countries plan a common market				Thermal energy "storage battery" sys-	iway	30	30
Shipping				for drugs N	Sept	19	39	tems will cut home heating costs in half.	May	16	48
Chemical shippers have big stake in reconstruction of Alton, III., lock:				Petrochemical complex prospects bright- en N	May	16	35	Thermochemical cycle uses solar collec- tors to produce hydrogen, CO N	Aug	15	38
deteriorating waterways may slow growth of chemical barge traffic	Nov	14	86	Complex moves ahead N Aug 1-32 . N Phillips Petroleum nears HDPE deal in	Oct		30	Solventa			
Colombia shipping rates protested by chemical firms		7	22	Singapore	June		13	Aliphatics solvents makers hurt by high	Enh	28	51
Diesel fuel: Emergency allocations pinch some shippers N	June		18	chemicals complex, N Sizers—Joint venture will make Swedish	Feb	7	24	feedstock costs N Carbon adsorption solvent recovery	Feb	20	91
Diesel-fuel shortage hits chemical car-				particle sizer in the U.S N Snodgrass, James M., president of Unitech	Oct	17	40	system from Lurgi licensed by Dedert Corp N	Dec	12	50
riers	July	4	28	Chemical Inc.: He's a trained engineer but prefers operations	May	16	64	New York seeks to curb solvents in groundwater. Prices N Jan 31-24, N Feb 7-30, N	Apr	4	24
eye costs	July		52	Soap				Prices N Jan 31-24, N Feb 7-30, N June 27-29 N	Oct	10	39
given priority status N Great Britain: strike hurting chemical	July		33	Canada: Law discusses soap and deter- gent raw materials at Canadian special-				Printing-ink specialty chemicals: regula- tions, economics change mix	Feb	28	58
makers Jan 24-15 N Truck strike ends, but problems	Jan	31	31	ties meeting	Oct	31	34	Trichloroethylene cleared by new Italian studies	Feb	14	37
linger N Hazardous materials	Feb	21	48	Three dominate the market (chart) P&G expanding Staten Island, N.Y.	Jan	24	44	Witco Chemical solvent treating area of Golden Bear refinery at Oildale, Calif.			
Canada: Ellison discusses transporta- tion of dangerous goods at Canadian				plants N	Feb	14	9	expansion	Dec	5	43
specialties meeting	Oct	31	34	Yardley of London's English Lavender liquid soap formulation R	Mar	28	40	Chemical Co.: Almost a CE dropout, he stuck and made it big	Aug	29	60
sponse systemN Chemical firms plan hazardous-ma-	Feb	7	29	Society of Automotive Engineers—Annual meeting: Better ideas may cut auto					Aug	43	00
terials accident-data system N DOT plan to identify hazardous cargo	July	18	34	Society of Chemical Industry—Symposium	Mar	7	22	South Africa Coal gasification plant Sasol II to be		-	
by numbers: experts will debate the	A	15	34	deals with "economic and political factors affecting the international chem-				expanded	Mar	7	23
merits	Aug Sept		35	cal industry"	Oct	10	19	plant at Sasolberg has good first year	Aug	22	44
DOT proposes UN system for identifi- cation of hazardous goods N	June	6	26	Society of the Plastics Industry FTC nixes SPI plan for statistical fore-				Dow at odds with Michigan State over South Africa policy	Jan	17	34
Drumming: tighter regulations pro- posed N	Jan	31	24	casting	June		14 29	University will accept Dow's con- tributions	Feb	7	27
FRA orders Louisville & Nashville RR to lower speed of all trains carrying				RP/CI: High-strength fibers find niche	Jan		15	-Letter	Mar	28	5
hazardous materials R FRA releases list of worst U.S. rail-	Feb	14	18	in boats	Jan	24	10	sold in U.S N Sweden bans investments in South	Sept	5	76
roads	May	23	14	European soda makers complain about	Mar	7	33	Africa	June	20	46
Transportation of Hazardous Materials disbanding, with many goals				dumping N FMC's trona technique sparks major	war	,	33	growth? (tables)	May	23	25
reached	Feb	28	57	development program at Green River, Wyo	Dec	12	17	Brennan gives rosy forecast for petro-	F-4	14	.7
terials transporation laws N NTSB study scores railroad safety	Feb	14	29	PQ Corp. seeking soda ash partners for Green River Basin Wyo N	Aug	15	35	chemicals	Feb	14	17
programs for hazardous materials Penick Corp. custom agents compare	Apr	11	23	Prices N Mar 7-32, N June 20-32 N Thailand plant N	Nov		40 26	Space Technology Du Pont's Kevlar will be used on Army			
notes on controlled substances Railroad derailments see Railroads	Mar	7	42	Sodium Bicarbonata				NASA spececraft will get data on	Sept	-	20
'Superfund' for oil and hazardous				Carpet fresheners	Nov	28	46	aerosols, ozone in stratosphere N	Feb	28	14
waste spills see Waste Disposal Transportation Dept. seeks stronger		_		moval in coal-fired power plant N Sodium Bisulfite-Coast Guard probe	Oct	31	40	Spain Aragonesas and Union Explosivos Rio			
rules on hazardous chemicals N Program under fire N	Mar May	2	14	clears sodium bisulfite in asphyxiation death of two crewmen aboard shrimp				Tinto merger halted by construction delay	ham	13	40
Transportation safety group scores DOT rules	Sept	12	19	fishing vessel	Aug	22	37	Capital spending (table)	Mar	21	
Lock and Dam 26 clears major legal hurdleN	Oct	31	39	Sodium Borohydride - Ventron study shows sodium borohydride may help				Ethylene plant at Bilbao: Petronor		-	-
Maritime study seeks upgrading inland ports	July		19	distillation efficiency N Sodium Chlorate—Prices N Mar 21-32,		6	35	shelves plans	Aug	1	
Midwest blizzard slows shipments N Netherlands: LPG landing facilities	Jan	24	37	N Sept 26-46 N Sodium Metasilicate—Prices N	Dec Feb	19	69 30	Ethylene project delayed again Foreign forecast: On balance, 1979	Oct	10	22
approved for Rotterdam N Ocean shipping capacity is okay for	Nov	7	48	Sodium Nitrite see Nitrites Sodium Silicate—Prices	Sept	12	36	could be a pretty good year-report (charts & table)	Jan	24	23
now N Plant sites 1980-report. John M.	Feb	28	27	Sodium Stannate-Prices N Sodium Sulfate Decahydrate-Polyester	Jan	17	36	Foreign investment in CPI rises sharply N	Jun	e 20	46
Winton How transportation shipping costs				film package may cut home air-conditioning costs	Aug	1	27	Monsanto to close some Spenish poly- styrene units N	Dec	19	26
compare (table) Tenneco computerized order-processing	Dec	5	81	Sodium Sulfits				Pollution: CPI faces production cut- backs to help reduce pollution	Oct	10	40
and inventory-control system called TOPICS	May	23	16	Allied expansion in North Claymont, Del R	Oct	24	24	Price increases postponed N Sinor-Kao fatty acids plant at Barcelona	Jen	10	39
Winter snarls: How CPI plans to steer clear of winter snarls		17	24	Virginia Chemicals buys Monsanto pro- duct line N		29	33	R	Aug	15	24
What's being done to get railroads to	Jan	17	25	Sodium Tripolyphosphate—Arab coun- tries will build synthetic-detergent plant				Specialty Chemicals Beatrice Foods Co. finds recipe for			
go in snow . Shipping see also Barges; Reitroads;	Jan	.,	4.0	Soil Mechanics—Engineering fabrics pro-		14	76	success in specialties	Sep	t 5	71
Tankers; Trucks Shoes—Shoe-repair specialties: jogging		10	44	vide solid support for roads, drainage systems	Jun	e 6	32	ties	Dec	12	39
shoes add new life to market	May Nov		41	Solar Power	Jun	. 0	JE	66th annual meeting theme "The American Initiative"	Des	12	90
Silicate Esters—Olin develops cluster-like silicate esters that withstand water	Mar		37	Ametek, Inc. files for patents on thin-				Specialties companies sales and earnings	DAG	. 12	30
Silicates—Prices N Sept 12-36 N Silicon	Dec	5	49	film semiconductor materials that can be used to make low-cost photovoltaic			47	Specialty chemicals ture chemical mar-	1401		41
Monsanto to build major silicon ma- terials plant in Spartanburg, S.C N	hor	. 12	13	solar cells			47	Specialty markets face good growth		21	40
terrais prant in Spartanburg, S.C N	June	13	13	low-cost solar cells N	Mar	7	35	prospects (chart)	Dec	. 5	28

								Without the Control of the Control o			
Sri Lanka-Liberalizing import and for-				Demand is strong, spot prices keep				Switzerland			00
eign-exchange controls N	May	9 :	39	rising N Freeport Minerals Co. diversification	July	25	33	Capital spending (table)	Mar :		30
Stabilizers-Polyvinyl chloride heat stabil-	0-1 2	94	20	Freeport Minerals Co. diversification				Cholesterol's role in cancer study N Federal law prohibits gross disposal of	Jan	10	34
izers prices N	Oct 3	31	39	program: Company now holds a "full		22	17	hazardous wastes	Aug	8	44
Maria des Alexadors					May	23	17	Firestone Tire & Rubber Co.'s Swiss	Aug	0	-9-0
Standardization CPSC weighs furniture flammability				Freeport Sulphur plans new mine in	Oct	3	13	subsidiary ordered to pay a \$1.6-			
	Nov 1	14	41	Louisiane	OCI	3	13	million penalty for alleged violation of			
cPSC defers decision N			18	inorganic sulfur compound plant R	Jan	24	17	a union contract at the Pratteln tire			
EPA plans rules for pesticide containers	200	-		India and Morocco hit by shortage N		28	51	plant	Dec	5	27
to protect workers	Aug 1	15	22	Inventories slide N May 23-24,	Aug	8	18	Firms welcome stabilized currencies . N	May	9	39
EPA proposes standards for TSCA				Plasticized sulfur will get a road test in	,	•		Personal-care products survey	Jan	24	44
chemicals tests N	June 2	27	18	Texes N	Feb	7	36	Production in first-quarter '79 up, sales			
FTC's proposed rule: standard setters				Sulfur-based road-paving material,				down N	July	4	47
face new federal standards	Jan	3	39	dubbed Sulphiex, could replace as-							
Insulation				phalt	Aug	15	18	Synthesis			
CPSC turns down request to set				Prices N Jan 3-40, N May 16-30, N Aug				Catalysts report, Donald P. Burke			
standards for home insulation N	Mar 1	14	14	8-23, N Aug 15-35 N	Nov		44	(charts & tables) Part II: Chemicals—	Ann	4	58
Cellulose insulation: CPSC amends			10	Prices: Canadian N Mar 7-32 N	Sept	5	65	Organic synthesis	Apr	*	20
standards N	July 1	18	18	Shortage seen in new study N	May	16	30	oxygen: ACS meeting	Apr	11	45
OSHA awards contract to Centaur				TVA's researcher Noggle reports air-				Nobel Prize (1979) in chemistry to	rapi		40
Management Consultants for study of generic pesticide standard N	Aug 2	22	14	pollution rules may be taking sulfur out of green plants	Feb	21	23	synthesis pioneers Herbert C. Brown			
Safety-glazing market may open, if	riug i			Texasgulf to sell sulfur recovery unit at	1.60	41	20	and George Wittig	Oct	24	19
CPSC weathering tests for plastics are				Whitecourt, Alberta	Jan	17	22				
eliminated	Nov :	21	19	World fertilizers study, IFDC, TVA sees	9811	.,		Synthetic Organic Chemical Manufacturers			
Urethane trade organization asks for				tightening markets (chart)	May	16	31	Assn.			
national combustibility performance								Chides EPA for its handling of chemi-			
standard	Sept	12	25	Sulfur Dioxide				cals inventory N	Aug	1	10
				California air rules: San Francisco Bay				MCA-SOCMA delegation meet European			
Stanford University				area companies take their case to				chemical trade associations to discuss	Mar	7	39
FDA commissioner Kennedy resigns to				court	July	4	19	toxic-substances regulations	War	'	39
take post at Stanford N	Apr :	25	18	Prices N	Aug		32				
Low-cost catalysts called "face-to-face"				TVA's researcher Noggle reports air-	-						
porphyrins for fuel cells could widen				pollution rules may be taking sulfur							
their uses N	Sept	5	76	out of green plants	Feb	21	23				
Marsden suggests converting Prudhoe				Sulfur Dioxide see also Air Pollution;				Taggants			
Bay gas to methanol cheaper than				Desulfurization				Conference Board study warns of			
building pipeline N	Oct	3	43	Sulfur Trioxide—Prices N	Aug	22	32	growing terrorism, adds to debate over			
Tin-nitride process to recycle nuclear				Sulfuric Acid-Prices N Jan 17-35, N Jan				taggants	Nov	28	23
fuel: Battelle study due N Starch-Superabsorbents seek markets	Nov :	21	46	24-37, N Aug 22-32 N Sulfuryl Chloride—Prices N	Aug		33	Microtaggants help trace suspect in			
Starch-Superabsorbents seek markets				Sulfuryl Chloride—Prices N	Aug	8	23	Baltimore bombing	July	11	41
that are super	July	18	40								
State University of New York				Surfactants				Taiwan		-	
Ocean-disposal trial set for treated				Block polymers: CSMA meeting	May	23	34	Can Taiwan do business as usual?	Jan	3	23
nower-plant wester	Jan	24	38	Energy, environment to rule surfactants	may	20	04	Formosa Plastics signs know-how con-		00	-
power-plant wastes N Polycrystalline silicon studies,		11	30	market; Colin A. Houston & Assocs.				tracts for Taiwan plants N	May	30	28
Statistical Forecasting-FTC nixes SPI	oury		90	study	Nov	7	40	Hercules joint-venture polypropylene	Aug	1	18
plan for statistical forecasting N	June	6	14	European market-research reports	June	27	40	plant to be expanded R	Aug		10
				Jojoba plant may become a source of				Intermediates exports control tight- ened N	Mar	28	37
Steem				surfactants	Feb	7	31	Petrochemical buildup continues N	Sept		42
DOE wants to sell big steam users on				-Letter Lignin sulfonates, wood chemicals, in-	Mar	14	5	Talcum Powder-Morhange Talcum pow-	oop.	-	
fluidized combustion N	May	23	35	Lignin sulfonates, wood chemicals, in-				der case (1972): French criminal court			
Dow's Dalton, Ga. plant may use solar				jact new life into tired oil wells	June	20	65	begins to hear testimony	Oct	31	22
power to generate steam N	Jan	17	28	O I-field specialties boom N	Feb		30	begins to hear testimony			
Fluidized-bed combution of coal: ready				Frices N	Feb	21	30	plastics bid for storage tank sales	Sept	19	52
for generating process steam (flow-		9	0.0	Soviet oil-recovery efforts will get a							
HOP's steam technique promises more	Mar	7	36	boost from nonionic-surfactants plant	Nov	20	42	Tariffs			
efficient beaut oil recovery	July	26	45	Stepan Chemical expanding Maywood,	1400	20	42	Argentina reduces tariffs on some petro-			00
efficient heavy-oil recovery N Steam, Geothermal see Geothermal	July	20	40	W.J. plant R	Jan	10	45	chemicals	July	18	38
Steam, Geotherman see Geotherman				Surfactant-chemical tabsN	Sept		46	Benzenoid imports exceed U.S. output	A		10
Steel				Witco Chemical Corp. Houston Organics				DOE opposes plan for tariff on imports	Aug	,	16
Chemical Week 300-report, Homer G.				Division: surfactants capacity boost R	Sept	26	69			21	14
Starr (tables) Feb 28-41, Apr 25-40,						-		of oil products N	1404	41	1-0
May 30-49, Aug 29-40	Nov	21	36	Providence .				"Tokyo Round" agreements: Tough			
Coatings for bridge steelwork	Aug	29	53	Sweden				bargaining ahead	Inn	10	10
Foster Wheeler offers steelmaking pro-				Aerial spraying of defoliants becomes a	Sept	5	69	Carter seeks backing for new trade	Jan	10	16
cess that uses aluminum wastes N	Feb	28	48	Bofors Lakeway Inc.'s vice-president	aepi		09	plan; chemicals stay aloof (charts)	Feb	7	15
Underground storage tanks: Steel, plas-				Haakan Cederberg: This Swede doesn't				Strauss textile pact clears trade bill			
tics bid for storage tank sales	Sept	19	52	fit the mold	Sept	12	60	path	Feb	28	19
U.S. Steel closures will cost Union				Cadmium imports to be banned N	Sept	5	69	Agreement reached in Geneva trade		-	
Carbide some business, but could				Cadmium use ban suggested N	Jan		40			18	17
boost the sales of Air Products and	Dec	6	21	Cancer causes study N	May		28	'Free trade'-Yes; 'Free raid'-nol-			
Chemicals	Dec	0	21	Cancer causes study N Capital spending (table)	Mar	21	30	Viewpoint	Apr		5
Coatings for bridge steelwork	Aug	29	53	Cooperation pact is signed by Kema-				Sneath favors GATT ratification	May	16	23
Steroids-Cobalt-polymer catalyst pro-	Aug	4.0	00	Nobel and Norsk Hydro N	June	20	45	Congress working on trade-agreement			
vides low-cost route to steroids, hydro-				Chemicals and metals companies would				ып	May	30	18
carbons N Stone - Chemical Week 300 - report.	June	13	23	be seriously hurt or forced to close if				Trade-pact poll: the 'ayes' have it			
Stone Chamical Week 200 capart											16
				the nation's nuclear power plants are	0	-		(table)	June	20	21
Homer G. Starr (tables) Feb 28-40,				phased out	Oct	24	31	-Corrections	June	20	
Homer G. Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	Nov	21	36	phased out	Oct	24	31	-Corrections	June	20	
Homer G. Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	Nov	21	36	phased out				-Corrections	June	20	
Homer G, Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39		21	36	phased out	Jan	24	31 23	-Corrections	June June Oct	17	26
Homer G. Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39 Storage Carbon dioxide kills bugs in grain				phased out	Jan			-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be	June June Oct	17	
Homer G. Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39 Storage Carbon dioxide kills bugs in grain storage bins	June	13	23	phased out	Jan	24	23	-Corrections Taxation Canada: Potash firms may take Sasket- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs. N	June June Oct	17	26 13
Homer G. Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39 Storage Carbon dioxide kills bugs in grain storage bins	June	13		phased out. Foreign forecast: On balance, 1979 could be a pretty good year-report (charts & table). South African investments are banned by Sweden. Svenska Handelsbanken's Jan Wallander: Budgets and forecasts: necessary est	Jan Jun	24 e 20	23	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs Firestone is assessed \$10,000 in tax	June June Oct	17	13
Homer G, Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	June Feb	13 14	23 14	phased out. Foreign forecast: On balance, 1979 could be a pretty good year—report (charts & table). South African investments are banned by Sweden. Svenska Handelsbanken's Jan Wallander:	Jan Jun	24 e 20	23	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs	June June Oct July	17	
Homer G. Starr (rables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	June Feb	13 14	23	phased out. Foreign forecast: On balance, 1979 could be a pretty good year-report (charts & table). South African investments are banned by Sweden. Svenska Handelsbanken's Jan Wallander: Budgets and forecasts: necessary est	Jan Jun	24 e 20	23 46	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs. N Firestone is assessed \$10,000 in tax case French tax authorities look at Abbott	Oct July	17 4 8	13 18
Homer G. Starr (rables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	June Feb Nov	13 14 7	23 14	phased out. N Foreign forecast: On balance, 1979 could be a pretty good year—report (charts & table). South African investments are banned by Swedon. N Svenska Handelsbanken's Jen Wallander: Budgets and forecasts: necessary evils —Other views	Jan Jun	24 e 20	23 46	-Corrections Taxation Canada: Potash firms may take Sasket- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs N Firestone is assessed \$10,000 in tax case case French tax authorities look at Abbott Labs	June June Oct July Aug	17 4 8	13
Homer G. Starr (rables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	June Feb Nov	13 14 7	23 14 48	phased out. N Foreign forecast: On balance, 1979 could be a pretty good year-report (charts & table). South African investments are banned by Sweden. N Svenska Handelsbanken's Jan Wallander: Budgets and forecasts: necessary evils —Other views Sweeteners	Jan Jun	24 e 20	23 46	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs. N Firestone is assessed \$10,000 in tax case French tax authorities look at Abbott Labs Goodrich (BF) pleads no contest on tax	June June Oct July Aug	17 4 8 14	13 18 41
Homer G. Starr (rables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	June Feb Nov Mar	13 14 7 28	23 14 48	phased out. N Foreign forecast: On balance, 1979 could be a pretty good year-report (charts & table). South African investments are banned by Sweden N Svenska Handelsbanken's Jen Wallander: Budgets and forecasts: necessary evils —Other views. Sweateners Cyclamates: Abbott files suit aimed at	Jan Jun Oct	24 e 20	23 46	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depraciation: chemical industry will be allowed faster write-offs. N Firestone is assessed \$10,000 in tax case French tax authorities look at Abbott Labs. Goodrich (BF) pleads no contest on tax charges	June June June July Aug Nov	17 4 8	13 18
Homer G. Starr (rables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	June Feb Nov Mar	13 14 7 28	23 14 48 25	phased out. N Foreign forecast: On balance, 1979 could be a pretty good year—report (charts & table). South African investments are banned by Sweden. N Svenska Handelsbanken's Jan Wallandser: Budgets and forecasts: necessary evils —Other views Sweateners Cyclamates: Abbott files suit aimed at bypossine FDA and resuming sale of	Jan Jun Oct	24 e 20 3	23 46 5	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs. N Firestone is assessed \$10,000 in tax case French tax authorities look at Abbott Labs Goodrich (BF) pleads no contest on tax charges Indians: Amoco sues over who levies	June June July Aug Nov	17 4 8 14	13 18 41 17
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Homer G. Starr (rables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39	June Feb Nov Mar Sept	13 14 7 28	23 14 48 25	phased out. N Foreign forecast: On balance, 1979 could be a pretty good year-report (charts & table). South African investments are banned by Sweden. N Svenska Handelsbanken's Jan Wallandser: Budgets and forecasts: necessary evils —Other views Sweateners Cyclamates: Abbott files suit aimed at bypessing FDA and resuming sale of cyclamates. R Cyclamates: FDA chief calls for more	Jan Jun Oct	24 e 20 3	23 46 5	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs. N Firestone is assessed \$10,000 in tax case French tax authorities look at Abbott Labs. Goodrich (BF) pleads no contest on tax charges Indians: Amoco sues ower who levies energy taxes—New Mexico or 'ndians Indians: cil firms sue in Utah ower	June June July Aug Nov	17 4 8 14 24	13 18 41 17
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Homer G. Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39 Storage Carbon dioxide kills bugs in grain storage bins N. LNG: DO'T proposes new rules N. Netherlands: LPG landing facilities approved for Rotterdam N. Stantrans acquires butadiene storage facility from Anchortank, Inc R. Underground storage tanks: Steel, plastics bid for storage tank sales Styrene Styrene Borg-Warner Chemicals methyl meth- crylate butadiene styrene resins plant onstream at Grangemouth, Scotland, N.	June Feb Nov Mar Sept	13 14 7 28 19	23 14 48 25	phased out. N Foreign forecast: On balance, 1979 could be a pretty good year-export (charts & table). South African investments are banned by Sweden. N Svenska Handelsbanken's Jan Wallandser: Budgets and forecasts: necessary evils -Other views Sweateners Cyclamates: Abbott files suit aimed at bypossing FDA and resuming sale of cyclamates. R Cyclamates: FDA chief calls for more studies of cyclamates. N Saccharin ban extension called for in	Jan Jun Oct Sep July	24 e 20 3 t 19	23 46 5	Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs. N Firestone is assessed \$10,000 in tax case French tax authorities look at Abbott Labs. Goodrich (BF) pleads no contest on tax charges Indians: Amoco sues over who levies energy taxes—New Mexico or 'Indians. Indians: oil firms sue in Utah over Navajo tax plans. Mexico adds tax breaks to investment incentives.	June June Oct July Aug Nov Jan Mar	17 4 8 14 24 7 28	13 18 41 17
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Homer G. Starr (tables) Feb 28-40, Apr 25-34, May 30-46, Aug 29-39 Storage Carbon dioxide kills bugs in grain storage bins	June Feb Nov Mar Sept June	13 14 7 28 19	23 14 48 25 52	phased out. N Foreign forecast: On balance, 1979 could be a presty good year-export (chars & table). South African investments are banned by Sweden. Now	Jan Juni Oct Sep July Jan Mar	24 e 20 3 t 19 4 31 7 18	23 46 5 27 14 23 19 17	-Corrections Taxation Canada: Potash firms may take Saskat- chewan tax deal Depreciation: chemical industry will be allowed faster write-offs. N Firestone is assessed \$10,000 in tax case French tax authorities look at Abbott Labs. Goodrich (BF) pleads no contest on tax charges Indians: Annoco sues over who levies energy taxes—New Mexico or 'ndians. Indians: oil firms sue in Utah over Navajo tax plans. Mexico adds tax breaks to investment incentives. N Plant sites 1980—report. John M. Winton State-by-state comparison of corporates	June June June June June June June June	17 4 8 14 24 7 28	13 18 41 17 17 21
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Modified windfall-tax bill passed by			**	CPSC staff likely to oppose consumer-	F-1-	20	14	Researchers seek new technique for separating water mixtures (flowsheets)	June	6	42
Senate weighs windfall-profits tax	July	4	19	goods ingredient testing N Fire tests help FAA rate aircraft in-	Feb		14	Trade bill see Tariffs	June		74
Compromise seen on oil-profits tax	Oct	31 12	17 21	Flammability testing: Ontario Research Foundation's DiNuccio describes new	Jan	24	44	Thailand Asian countries plan a common market			
Technical University Aachen—Stetter pro- poses novel synthesis for jasmine fra-	0	2	46	system at Canadian specialties meeting GE test of superconducting generator	Oct	31	34	for drugs N DMT shortage blamed on Iranian crisis N		19	39 43
grances	Oct	3	*	component is called successful N	Nov	14	51	Soda ash plant N		18	26
separate uranium isotopes developed. N	Feb	21	37	Home water-filtration devices ineffective in removing trihalomethanes tests				Thermal Energy			
Tennesee Valley Authority				done for EPA indicate N IIT computer system ranks chemicals	June		18	Hawaiian demonstration plant converts ocean's heat energy into electricity. N	Sept	12	48
Clement, Robert appointed to board of directors	Feb	14	18	by potential health hazard N NCI's bioassay testing see Cancer	Mar	7	35	Novel technique to recover energy from water	Dec	5	67
Diamond Shamrock's acquistion of Falcon Coal protested N	Jan	3	13	Roche Australia, Roche Analytical Services, analytical laboratory R	Nov	21	22	Thermography—Infrared scanning detects hot spots in chemical plants.	Mar	28	35
"Fallen curtain" process cuts fertilizer	Sept		23	Safety-glazing market may open, if CPSC weathering tests for plastics are		-	-				
Fluidized-bed combustion plant: design	Sept			eliminated	Nov	21	19	Thermoplastics Markets: record volume tightens major			
Freeman, S. David, Chairman: He aims			23	Battelle gets EPA contract to evaluate	· ·		20	plastics markets (charts & table) Polyolefins share tops 50% (chart)	Feb	28	15 37
to clean up 'garbage can' of wastes Insulation from slag plant delayed	Aug	18	48 21	methods for testing toxics N CSMA files response with CPSC	Jan	10	33	Shell slates a fourth thermoplastic rubber unit at Marietta, O N	Nov	14	17
Nuclear power plants alternatives weighed	May	9	19	questioning authority to require manufacturers to perform carcino-				Use sets strong first-quarter pace N Thioester Antioxidant—Prices N	May		24 23
Phosphate slag studied as radiation source	Jan	31	18	genicity testing R Interagency Regulatory Liaison Group	Jan	17	22	Thioglycolic Acid-Elf Aquitaine boosts			69
Phosphoric acid demand	Aug	8	18	Report sets new cancer-risk rules for agencies N	Jan	31	23	production	Sept	20	09
TVA raises rate 6.5%; valley clients protest	Feb	28	23	USDA's Food Safety and Quality- Service joins group N	Feb	7	14	Thionyl Chloride Hooker plant at Taft, La R	May	9	21
Rolls back rate increase slated for Apr. 1	Mar		25	IRLG puts risk into cancer equation . Can regulators agree on a cancer		14	12	Mobey to construct thionyl chloride plant in Baytown, Tex N	Apr	25	17
Researcher Noggle reports air-pollution		20	20	policy?	Feb	28	46	Tin			
rules may be taking sulfur out of green plants	Feb	21	23	Simplified toxicity-test guidelines sought	Sept	5	14	Prices: product prices	Jan	17	36
Study of interlocking ownership of national oil, coal and uranium inter-				Monsanto gets EPA grant for evalua- tion of test procedures for organic				metals in refinery cat cracking N Tin-nitride process to recycle nuclear	Jan	10	34
TVA/EPA cleanup pact supported by	Mar		25	toxic substances in waters R Natural Resources Defense Council		24	24	fuel: Battelle study due N	Nov	21	46
White House	Mar		25	pushes EPA for action on testing rules N	Aug	22	14	Tires			
TVA admits to error on steam plant	May	2	18	NIEHS studies effect on fetus of four chemicals		31	21	Allied expands plant for tire and in- dustrial yarn in Moncure, N.C N	Mar	21	17
Tests new igniter for coal-fired units	Aug		21	New toxicology labs open N Short-term tests for cancer not yet	Feb	28	48	Chemical Week 300—report. Homer G. Starr (tables) Feb 28-41, Apr 25-43,			
Use of coal-derived gas to fuel a phos- phoric acid fuel-cell pilot plant to be				perfected	June	13	31	May 30-51, Aug 29-40	Nov	21	42
tested N Westinghouse settles uranium claim N	Dec May		70 13	report advances few surprising re- gulatory initiatives		22	20	subsidiary ordered to pay a \$1.6-million penalty for alleged violation of a			
World fertilizer study, IFDC, TVA sees tightening markets (chart)		16	31	Toxicology Forum: needed-better studies of links to cancer.		14	39	union contract at the Pratteln tire	Dec	5	27
Tennis Racquets-Poromeric grips for		22	43	U.K. looks for toxic chemicals in			44	Ford's 1980 cars will offer metric radial tires	June	6	20
tennis racquets	Aug	22	43	North Sea		14		Goodyear to boost radial truck-tire capacity at Danville, Va., plant N	Oct	24	13
Israel Chemicals Ltd.: He decided it was time he had a new challenge	June	20	66	measured with new device N TSCA see Law—Toxic Substances Con-		14	51	Liquid nitrogen key to tire-recycling process	July		41
Teratogens—Fetal safety controversy see Cancer				trol Act Tetrabromophthalic Anhydride-Velsico				Mohawk Rubber employees—Out of work since Akron tire unit closed—	July	**	**
Terephthalic Acid—Amoco Chemicals' PTA-process problems hit plants in				building plant in El Dorado, Ark R	Jan	31	21	want to buy and run the plant	Jan	17	34
Decatur, Ala. and Cooper River, S.C	Feb	21	26	TCDD (tetrachlorodibenzo-para-dioxin)				(chart & tables)	May	30	16
Terminals California LNG terminal at Point Con-				Agent Orange see Herbicides California county votes to limit phenoxy	,			Uniroyal European tire plants sold to Continental Gummi Werke N Apr			
ception Approval seen R June 13-22	lube	18	25	herbicides use		e 13	18	25-17	Aug		
Terminal may be ready by 1983 N			47	Mich. plant criticized by EPA	. Fet	21	25	belted radial tire		26	
Engelhard's Minerals & Chemicals Divi- sion bulk-storage and distribution ter-				dioxin disaster	. Fet	14	13	1979: Calarco upbeat on chemicals	Oct	17	23
minal for petroleum-cracking catalysts in HoustonR	May	9	21	fects charged	. Fel	28	24	Titanium Cast dental prosthesis made from a			
Malaysian deepwater port for LNG loading: South China Sea gas is key				tion	R Ma		24	titanium-based alloy tested R Dow-Howmet Turbines to scale up	Mar	28	40
to development (map)	Dec		52	Seveso cleanup still not solved Seveso contamination studied in three	0			electrolytic route to titanium sponge N RMI to boost titanium sponge produc-	May	16	43
Ports		25	19	deaths	vI .	nt 26	20	tion at Astabula R	Feb	14	18
approved for Rotterdam N Royster asks bids to determine cost of	Nov	7	48	Monsanto to test Nitro, W. Va. worker exposed to TCDD	. Ma	r 28	23	Titanium Dioxide American Cyanamid's gypsum waste			
doubling capacity of Tampa Bay, Fla. anhydrous ammonia terminal R		9 15	24	Tests find no excess of deaths from cancer or cardiovascular disease	R No	v 7	25	from TiO2 processing will be bought	Aus	. 20	43
Standard Oil (Ohio) scuttles Long Beach, Calf, terminal		21	23	Orthochlorphenol spill from derailed train in Sturgeon, Mo.: Dioxin in	is			Du Pont launches its defense in FTC's		29	
Sohio reconsiders oil project	Mai	28	21	found in cleanup workers' blood Suits boost claims for dioxin-spil	. Ma	y 23		TiO ₂ -antitrust suit Du Pont wins round in FTC antitrust	Feb		
California issues air-quality permit to Sohio	. Mar	y 2	23	damage	. Jul	y 25	21	Du Pont puts new TiO ₂ plant onstream		1 26	-
Texas deepwater port: DOT okays new license	Au	g 22	14	Antiknock Compounds Tetramethyl Thiuran Disulfide—UCB S.A				at DeLisle, Miss	Dec	12	
Texas terminal off Preeport takes a tentative step forward N		c 5	17	-Virginia Chemicals joint-venture plan at Bucks, Ala	11	c 19	24				
Terrorism				at bucks, Ala	n De	C 13	24	Toilutrius Chemical Week 300-report, Homer G.			
Conference Board study warns of growing terrorism, adds to debate over				Texas A&M University Euphorbia research	De	c 12	53	Starr (tables) Feb 28-41, Apr 25-33, May 30-49, Aug 29-36	. No	v 21	
Merck recalling three remaining German	. No	v 28	23	Fire ants fight cotton pests, researcher	rs			Foot-care kit	Ap	11	3 21
staff members from Teheran after the assassination of Hans Joachim Leib. N		t 24	31	Researcher Presley discovers basin i	in Ju	ly 11	22	Swiss market for personal-care products.	Jan	24	44
Microtaggants help trace suspect in	1	y 11	41	Gulf of Mexico that might become waste disposal site	N AL	ig 28	18	Toluene Petrochemical production increases but			
Mobil's regional office in Eastchester,			22	T				some major product categories have been 'on allocation' (chart)	Oc	1 3	1 15
N.Y. hit by terrorist bomb	1			Taxtiles China and U.S. to discuss trade	N Ja	n 10	23	Prices N Jan 10-24, N Feb 14-29, N Mar 21-32, N May 16-30	1	nt 15	
former employee holds four hostage . Tertiary-butyl Alcohol-Octane pinch	:	w 7	25	China offers joint-venture participation to Toray	N Ju	ly 4	47	Production figures for July 1979 N Snia process to make caprolactam that	l Oc	t :	
Suppliers are readying new gasoline additives for use when lead is phased	i		40	Courtaulds and UM&M form 50-5 joint venture to make and marks	iO et			eliminates ammonium sulfate copro- duction		ne (35
down (chart)	. Ap	r 11	43	spun-woven fashion fabrics Great Britain: textile makers face Ion	9-	ne 13			Juli		
Testing Biorational pesticides: EPA speeding up	3			Packed-column scrubber known as a	N No	ov 28	8 42	Toluene Dispoyanete Outlook improves as capacity is sliced,			
program for approval	i Jul	ly 4	39	autocondenser tames vapors at J. Stevens' Wallace, N.C. plant	P.	ly 30	0 59	flexible-foam market grows (charts) Prices N Jan 31-24, N May 30-24 N	. Jan		
Triangle Park, N.C.: Golberg's goal is to make CIIT a center of excellence	8			Permanent-press: ammonia merceriz tion helps new cotton shirts shake or	8-	, 50	-	Toothpasts—Household product sales: How the Big Three dominate the market			
in toxicology	. Jul	ly 25	63	the wrinkles		b :	7 25	(chart)	. Jar	2	44

				Hooker dumpsites see Waste Disposal				U.S. Dept. of Commerce			
Toxicology Forum International Update on Short-Term				National Institute of Environmental				Carter plan would consolidate trade			
Tests: Short-term tests for cancer not				Health and Safety animal experiments	A	15	14	activities into Dept. of Commerce	July 2	25	19
Needed: better studies of links to	June	13	31	on dioxin look for birth defects N Triethylene Glycol—Prices N	Aug	7	14 32	Cast dental prosthesis made from a titanium-based alloy tested R	Mar 3	28	40
cancer	Feb	14	39	Trimethylolpropane-Perstorp will con-				titanium-based alloy tested R "1979 U.S. Industrial Outlook"	Feb	7	17
				struct plant in Toledo, O R Trinidad-LNG to be imported from	June	20	28	Product-liability law proposed	Feb	7	20
Trade Secrets Aries, Robert S. plays a return engage-				Trinidad by Tenneco R	Mar	21	26	U.S. Dept. of Energy			
ment	Sept	19	24	Trucks & Trucking				DOE finds that it is 'too cozy' with			
Mitsubishi fined in trade-secrets case in- volving the theft of polyester film pro-				Chemical truckers seek new rate boost N	Oct	31	39	API	May	16	24
cess trade secrets from Celanese	May	9	19	Contract trucking and piggybacking:				DOE's new head Charles Duncan begins to reorganize the agency N	Sept	5	14
Mobil drops talent-theft suit against	June	27	24	new trends in trucking shaping up Deregulation bill may be in for a long	May	30	60	Duncan's DOE: Hard sell on conserva-	_		
Superior	Julie	2,	24	haul in Congress	Jan	31	20	Myers, Dale resigns under White House	Sept	19	25
Trademarks & Tradenames				Administration proposes truck-derugu- lation bill	June	27	25	pressureN	May	16	18
Formica tradename gets support in Congress N	May	9	14	Diesel fuel: Emergency allocations pinch				U.S. Dept. of Health, Education and			
Formica loses round in battle for				some shippers N	June	20	18	Welfare			
trademark N Trademark policing: firms strive to keep	June	13	14	Diesel-fuel shortage hits chemical car- riers N	July	4	28	Califano leaves HEW post without filling	feets.	0.5	
well-known trademarks out of com-				Availability eases but wary shippers	late.	10	F0	top FDA position N Compiling a "worker registry" of any-	July	25	14
mon usage ,	Aug	15	45	eye costs	July	18	52	one exposed to dioxin N	Aug	15	14
Training				N	Jan	31	24	Model state law to boost use of generic drugs proposed N	Jan	17	14
Chinese will train in U.S. CPI plants	Sept	5	70	Strike in Britain buffets chemical	Jan	24	15		Jan	1,	
Kaiser backs summer job program for students	June	13	45	Truck strike hurting CPI sales N		31	31	U.S. Dept. of Interior			
Sales training: SACI survey	Mar	28	31	Truck strike ends, but problems	Feb	21	48	Baltimore Canyon: lower bids for leases	Mar	7	24
Texas Instruments will open a network of process control schools N	Aug	15	38	Teamsters strike may pinch		11	23	Computer model predicts effect of			
UC's Chemicals and Plastics group offers	,			Turkey-Economic problems curb CPI				various factors on deep-sea mining. N Court rules oil shale could be defined	Jan	10	34
seminars for plant energy-systems	Feb	14	33	output, petrochemical buildups	Mar	28	39	as a "valuable mineral" R	Feb	7	22
Transformers-Metallic-glass use in trans-	reb	1.4	33	Turpentine				Government's coal leasing program			
former will save research money N	Dec	12	50	Naval stores market: International Naval	May	9	24	facing new problems as the Interior Dept. attempts to restructure it and			
				Stores Conference	May	9	24	put it into effect again in 1981	Oct	24	23
Transportation How CPI plans to steer clear of winter				upturn N	May		24	U.S. Dept. of Labor-Labor Dept. taken			
snaris	Jan	17	24	Production up N	Dec	5	49	to court over disclosure of workplace hazards N	Oct	3	14
What's being done to get railroads to	lan	17	25					U.S. Dept, of Transportation - Plan to			
go in snow	Jan	17	25	U				identify hazardous cargo by numbers: experts will debate the merits	Aug	15	34
Transportation of Hazardous Materials				Discontinue					Aug		01
disbanding, with many goals reached Plant sites 1980-report. John M.	Feb	28	57	Ultraviolet Atlantic Research's LARC process re-				U.S. Justice Dept, Reorganizes Land and Natural Re-			
Winton				moves halogens from wastewater N	May	2	53	sources Div.; staffs up for waste in-			
How transportation shipping costs compare (table)	Dec	5	81	Columbia University chemist Turro de- scribes simple way to separate isotopes				vestigations	Oct	10	20
Transportation chemicals: CSMA meet-	Dec	9	01	by weight at ACS meeting	Sept	19	44	Roisman, Anthony joins Hazardous Waste Section N	Oct	31	14
ing	May	23	34					U.S. Maritime Administration — Study			
Transportation see also Aeronautics; Barges; Railroads; Shipping; Trucks				Underwater Mining Computer model predicts effect of				seeks upgrading inland ports	July	25	19
bargas, Hanroads, Simpling, Hucks				various factors on deep-sea mining . N	Jan	10	34	U.S. Navy			
Trees				Kennecott's Wright discusses seabed mining at AAAS meeting	Jan	17	29	Antifoulants for new ship coatings			
Biomass to ethanol without fermenta- tion: Experimental technology for				Offshore oil see Petroleum	vari			Navai Weapons Center process converts	Nov	21	22
turning corn husks, rise hulls and pine				Other Views: A SWEET story about				trash to gasoline	Mar	21	36
trees into ethanol	Nov	28	38	some valuable ASSETS, Ernst M.	Jan	10	5	Process employs laser to coat surraces .rv	Jan	10	34
Brazilians push plans to manufacture methanol from eucalyptus trees	Mar	14	38	Out	-		-	University College Hospital Medical School —Cholesterol's role in cancer study N	Jan	10	34
Calvin at ACS meeting reports of rare	iviai	1-4	30	United Nations				University of Arizona-Jojoba plant re-			
trees that can directly yield fuel oil			**	Fertilizers will be sold to developing countries below market prices N	Ech	21	48	search	Feb	7	31
and naphtha for chemical feedstocks Neem plant: Indian tree extract repels	Sept	19	44	First International Conference on the	Feb	21	40	University of California			
a wide range of insect pests from				Future of Heavy Crude and Tar Sands	June	13	24	Arnes test: Short-term tests for cancer			
Rapid tree-growing make forests major	Aug	29	60	Research into alternative methods of pest control called for N	May	30	27	not yet perfected	June	13	31
source of CPI products	Jan	31	46			-		at two federally-funded labs	Dec	19	73
Tributyl Phosphate—Prices N Tricalcium Phosphate—Monsanto com-	Oct	24	28	U.S. Army DDT residues at Redstone Arsenal in				Howard Hughes Medical Institute: Re- search teams use recombinant DNA to			
pletes expansion at Carondelet (St.				Huntsville, Ala.: Army refuses DD7				make growth hormone	July	18	25
Louis) plant R	Oct	24	24	cleanup, blames Olin for leakage	Feb	14	12	Jojoba plant research	Feb	7	31
				EPA may sue Atmy for refusal to clean up DDT residues	Feb	21	25	Lawrence Berkeley Laboratory: Cobalt- polymer catalyst provides low-cost			
Trichlorosthane New York seeks to curb solvents in				DDT pollution found in Triana, Ala				route to steroids, hydrocarbons N	June	13	23
groundwater	Apr	4	24	residents' blood	Mar	28	23	Lawrence Berkeley Laboratory: Wood-	Aum	15	23
Prices N Feb 28-27 N	June	27	29	nerve gas	Oct	31	20	to-oil process tests are favorable New type of particulate collection		15	23
Trichoraethylene				Pentagon seeking approval of an Army	17			suggested for mutagenic fly-ash N	June	13	23
Italian studies clear trichloroethylene N			36	plan to build a new nerve-gas plant a Pine Bluff, Ark	Nov	21	21	Saxas hair-scanning device tracks trace elements	Sept	12	53
Prices N June 27-29 N 2,4,D. Agent Orange see Herbicides	Oct	10	39	U.S. Bureau of Mines-Low-energy pro				Study calls cancer risk from drinking			
2,4,0. Agent Orange see Herototoes				cess regenerates and recycles chrome etching solutions		16	43	water 'grossly underestimated' N Toxic levels on sprayed farmlands		28	48
2,4,5-Trichlorophenoxyacetic Acid					imay		40	measured with new device N	Nov	14	51
Agent Orange: Class action suits filed				U.S. Coast Guard Checking oil spill dispersants	A	- 20	24				
on behalf of Vietnam veterans and others Jan 17-21, R Feb 14-16	Feb	28	18	Mocap (ethoprop) pesticide: Coas		29	24	University of Delaware Katzer at Midland meeting looks at the			
GAO backs study of veterans exposed				Guard and EPA debate best way to				state of catalysis	Oct		29
to Agent Orange		18	20	dispose of sea water contaminated by mocap from Italian ship Maria Costa .	Mar	14	20	-Correction	Nov	7	24
Congressional panel hears Vietnam vets on Agent Orange effects	July	4	18	Coast Guard and EPA bury pesticide		1-9	20	air-conditioning costs N	Aug	1	27
Study of veterans delayed	Sepi	1 26	20	at sea	. Mar	21	28	University of Heidelberg-Wittig, George			
GAO finds fault with Vietnam spray- ing	Dec	5	41	Probe clears sodium bisulfite in asphyxia tion death of two crewmen aboard				wins Nobel Prize in chemistry	Oct	24	19
Agent Orange: Dow Chemical denies			4.	shrimp fishing vessel	. Aug	22	37				
that company engaged in "corporate espionage" against a Vietnam veterans				"Superfund" for oil and hazardous waste cleanup see Water Pollution				University of Maryland Grace R&D contacts	Feb	21	38
group to obtain a copy of a medical								Kessler at Toxicology Forum	Feb		39
questionnaire related to alleged ex-		- 00	00	U.S. Dept. of Agriculture	Α.	8	42	University of Nebraska-Nitrogen ferti-			31
Agent Orange shows up in fat-biopsy	Aug	29	23	Bacterial fermentation for ethanol Cotton, Inc. is under scrutiny of USDA	. Aug	3 0	42	lizer produced by solar power N University of New South Wales' Ceramic	Aug	0	31
studies	Dec	: 19	21	J. Dukes Wooters is object of direct	t	-	00	Engineering Dept,-Australians show	,		
California county votes to limit phenoxy herbicides		e 13	18	request for dismissal	. Aug	22	30	silicon nitride works as bone and joint		26	69
herbicides	Jan		34	and spending practices questioned . I	I Sep	t 5	14	implant	Sebi	. 20	00
Dow makes its case for 2,4,5-T at				Food Safety and Quality Service join	5			University of Pennsylvania			
American Farm Bureau conference Dow registers Garlon 3-A herbicide said	Jun	ie 13	22	IRLG	9	, 1	14	Drug, 2-deoxy-D-glucose cream, offers hope for cure of persistent venereal			
to be partial replacement for 2,4,5-T.N	Jun	e 6	14	of insect pests from crops	. Au	9 29	50	disease	July July	4	39
EPA orders emergency suspension of 2,4,5-T	Mar	7	21	Jojoba plant may become a source of cosmetics, pharmacueticals, lubricant	S			Study links estrogen use with utering cancer	. Jan	10	18
Judge lets ben stand	Mar		19	and surfactants	. Fet	0 7	31	University of Pittsburgh-Coal conversion	3		
EPA opens hearing on 2,4,5-T suspen-	Arr	. 25	23	NIH panel gives nod to DNA work o vaccine	n	c 19	22	technology: Pittsburgh conference zero			
Dow ask EPA to halt hearings N		r 25	14	Researchers petrify cotton	Jan	17		in on coal-gasification processes (table: & diagram)		8	32

University of South Wales (Australia)-				Venezuela				EPA and Justice Dept. set up task			
Bacteria speed up fermentation to				Alumina plant scheduled for 1982 N	Oct	24	31	forces for old waste sites N	Apr 1	18 :	30
make ethanol for motor fuel N July 25-46	Aug	8	42	Oil-recovery R&D pects signed with Canada N	June	13	40	EPA readies a monitoring plan for toxic substances N	Aug :	22	36
University of Southern Mississippi-Non-				Polyethylene plant planned downstream			**	EPA schedule for drafting hazardous-			
fermentation route to ethanol from biomass is proposed N Oct 31-40	Nov	28	38	from El Tablazo complex N South America: set for growth? (tables).	Feb May		44 25	waste rules approved by court N EPA updates its list of hazardous-	Jan: 1	17	14
University of Texas-Polymer concrete				Viewpoint-Jan 3-5 (letters Jan 17-5),				waste sites	July 1	18	23
overlays for roadbeds and bridge decks .	Aug	29	53	Jan 24-5, Jan 31-5, Feb 21-5, Feb 28-5 (letters Mar 14-5, Apr 18-5, May 23-5,				EPA's Costle tells governors to develop	Mar	7	14
Uranium				Aug 1-5), Mar 21-4, Apr 11-5 (letters				safe disposal sites N EPA's new discharge rules quiet critics:	Mile	,	14
Australia to continue sales N	Apr	11	54	May 9-5, June 13-5, Aug 1-5), Apr 25-5, May 2-4 (letter Aug 1-6), May 23-5,				Agency makes it easier for firms that			
Backfilling mines with uranium tailings seen as disposal solution	Feb	28	21	May 30-5, June 20-5 (letters Aug 1-5,				pretreat wastes to get removal allow- ances	Oct	17	42
Cartels				Oct 10-5), July 4-5, July 11-5, July 25-5				Florio pushes waste cleanup fund	Nov		20
Northeast Utilities settles suit against Westinghouse	Oct	3	25	(letters Aug 29-5), Aug 22-5 (letters Sept 19-5, Nov 14-9), Sept 26-5, Oct				GAO study says public pressure re- stricts new hazardous-waste sites	June	6	36
Westinghouse presses its case (chart &				24-5, Nov 7-5, Nov 14-5 (letters Dec				Hazardous-waste cleanup likely to be	Game		00
table)	July	25	25	19-12), Dec 5-5	Dec	19	4	tied to oil-spill cleanup in new laws.N Hazardous-waste report finds many at	Sept	19	18
with Vepco	Apr	25	24	Vinyl				fault: Congressional House criticizes			
Westinghouse settles uranium claim	May	22	13	GAF's sheet-vinyl flooring plant at Mull-	June	12	22	industry, EPA and Congress itself	Oct :	24	40
withTVAN Cotter Corp. to recover uranium tailings	iviay	23	13	ingar, Ireland R Wallcoverings market	Mar		45	Justice Dept. reorganizes Land and Natural Resources Div.; staffs up for			
at Canon City, Colo. processing mill N	June		31					waste investigations	Oct	10	20
DOE seeks \$9-billion budget for 1981 Eldorado Nuclear's uranium refinery	Dec	5	26	Vinyl Acetate Monomers see Monomers				Kentucky imposes new waste-control program.	Oct :	24	23
in Ontario: contract to Lummus				Netherlands: Air Products plans vinyl			-	Michigan releases list of contamination	001		20
Canada	Aug	22	30	acetate and ethylene emulsions plant N	Dec Sept		17 35	sites	Dec	19	24
Construction, Garrett and Goodyear				Prices N Vinyl Chloride see Polyvinyl Chloride	nebr	10	30	disposal sites	Dec	19	72
Aerospace will supply centrifuges for		22	20					Roisman, Anthony joins Justice Dept's	-		
DOE	Aug	22	36	Vitamins Eldib Engineering and Research, Inc.				Hazardous Waste Section N South Carolina drops proposal on	Oct	31	14
process: inventor Gazda claims new				Vitamin use survey R Lummus process makes niacin and	May	2	51	hazardous wastes	June	20	26
process cuts cost of nuclear fuel by 90% (diagram)	Sent	5	73	Lummus process makes niacin and niacinamide from a single feedstock				States track hazardous wastes: Texas, California lead nation N	July		28
EPA working on uranium drinking				using the same equipment (flowsheet) .	Aug	22	38	-Letter	Sept		5
water standard	July	25	22					Waste sites may be major liability for			
Freeport Minerals ships first uranium from Louisiana phosphoric acid re-				W				CPI: EPA and Justice launch an aggressive campaign to sue over			
covery operation R	Jan	31	21	• •				dumpsites	May	2	15
IMC joint venture has means to recover uranium from phosphoric acid N	Oct	10	42	Walker, Bailus Jr., OSHA head of health				Hooker Chemical's dumpsites	Jan	3	16
Israeli scientists develop magnetic meth-			-	standards programs: He's not one to				Dumpsites may pose dioxin threat Hooker faces suit over Montague,	Jan	3	10
od to separate uranium isotopes N Pioneer Uravan seeks okay for new	Feb	21	37	back down from a challenge Wallcoverings—Market: Du Pont's Flair	Nov	21	60	Mich. waste site			19
radioactive uranium disposal method N	Mar	14	37	Squares are new entry	Mar	14	44	New York expands dumpsite study Niagara, N.Y. files suit in connection	Jan	17	22
Tenneco reenters uranium mining busi-				Waste Disposal				with Hyde Park landfill R	Feb	7	22
ness with the purchase of Rio Alta Co.'s properties N	Dec	12	17	Akron, O. court battle over recovery				Michigan sues Hooker over waste	Feb	28	20
TVA sees threat from oil companies				of solid wastes could determine future				Cleanup	Mar		20
buying into coal, uranium	Mar	28	25	of energy-from-trash projects Basin found in Gulf of Mexico might	June	6	36	Hooker to phase out landfill waste		04	05
fuel: Battelle study due N	Nov	21	46	become waste dumpsite N	Aug	29	18	disposal	Mar	21	25
Uranium wastes being tested as fertilizer				CBS and others sued by New Jersey chemist over report on pollution	Sept	12	25	hazardous Niagara Falls dumps	Mar	28	23
for cattle feed	Oct	7	43	California orders Oxy to halt pollution	Sehr	12	23	Cleanup of hazardous waste-disposal sites outlined	Apr	4	23
Uranium Oxide-Freeport uranium oxide				at Lathrop, Calif., fertilizer and			**	Memos show Hooker knew of hazards	refer	-	2.0
recovery operation planned near Donald- sonville, La N	Oct	17	17	pesticide plant	Apr	4	23	at former Love Canal site; counter-	Apr	18	18
sometic, ca	occ		"	as disclosure of messos implicate				suit in Michigan			23
Ures				Oxy in water-pollution coverup Case studies estimate waste cleanup	June	27	23	-Correction R	May	2	23
American Cyanamid expanding urea melamine plant at Wallingford, ConnR	Jan	3	21	cost	May	2	16	Justice may file suit	May	2	16
Fertilizer demand forecast: shipments,				City water-treatment plants requests for pollution discharge: U.S. Supreme				Montague, Mich. plant water pollution	may	-	20
Prices etc. (chart)	Apr	25	19	Court will decide what EPA must do				study: data to be given to House	May	22	18
conference	June	20	34	to hear public objections N	June	20	18	subpanel	may	23	10
India to build up ammonia-urea capa-	Mari	30	28	Coast Guard and EPA debate best way to dispose of sea water contaminated				Montague could impede accord on			
city N Indonesia finds financing for urea plant	iviay	30	20	by mocap from Italian ship Maria				Michigan state OK's plan to stop	June	6	18
at Atjeh	July	11	36	Costa Coast Guard and EPA bury pesticide	Mar	14	20	Montague leaks	June	20	25
Indonesian plant to be backed by Japanese	Apr	18	26	at sea	Mar	21	26	Hooker begins renovation of Niagara Falls plant	June	27	23
Japanese cutbacks continue N	June	e 20	46	Congressional waste-disposal survey:	***		20	Hooker tells its side of the story	June		34
Malaysian plant	Apr	18	26	companies gather data		9	32	N.Y. state brings dumping charges of			-
city at Springfield, Mass	Mar	21	26	53 firms (table)	Nov	7	22	violations at Hicksville, N.Y. plant Michigan DNR nears accord with	Sept	12	25
Saudi Arabia: Pullman Kellogg picked to design fertilizer plant N	Cont		69	EPA eases water clean-up rules for 64 industries	Sept	5	14	Hooker over Montague, Mich. facility.	Oct	10	20
to design tertifizer plant	Seh	t 5	09	EPA issues new standards for effluents				Hooker sued again over Love Canal dump site	Oct	10	20
Urea-Formaldehyde	Mari		04	from electroplating plants N EPA will use concept of 'indicator	Sept	12	14	- Letter	Nov	7	8
Massachusetts bans UF foam insulation . Formaldehyde Institute sues Massa-	NOA	14	24	pollutants' for some toxic substances N		14	18	Sierra Club may stall Hooker waste	Oct	22	22
chusetts over formaldehyde ban	Nov	21	18	EPA's open-dump regs challenged by				Cleanup	OCI	31	22
Rapco Foam-Scientific Applications UF foam process case to go to trial	Mov	14	25	U.S. Chamber of Commerce	Nov		21 44	from White Lake near Montague		-	
Urea-formaldehyde foam insulation:	1404		23	Fighting Island waste-disposal site in the	-			Hooker to clean up plant site	Oct	7	23
makers launch safety studies a. DOE				Detroit River under scrutiny Fluidized beds may be used to burn	Dec	12	24	About 800 lawsuits have been filed			
ponders new limits; tough CPSC standard due soon	Nov	28	36	sludge N		31	36	over Love Canal contamination R Love Canal: wrangle over insurance,	Nov Dec	12	25 24
		-		Global Marine will burn chemical wastes				Incineration see Incineration	Dec	12	24
Urethane Auto production cuts will have mixed				at sea	July	11	20	Injection well rules: EPA takes another			
impact on many chemical suppliers	Aug	22	18	AIChE meeting message: new rules				lowa State Univ. finds safe ways to dis-	July	25	21
Chemical prices are moved up N	Jun	e 13	36	for hazardous wastes—burn them, bury them, or change them		20	44	pose of pesticide wastes N		24	38
Engineering adhesives		21	40	CMA comes to grips with hazardous	Aug	29	44	Italy: Seveso cleanup still not solved Kentucky weighs using Valley of the		18	23
mattresses, personal care items	Jan	3	42	wastes	July	18	22	Drums as waste recycling center	Apr	4	22
Moca in doubt; regulations may force				CMA offers EPA a hand on hazardous waste site: 'orphaned' (abandoned)				'Valley of the Drums' to be a model			
processors to change cast-urethane specialties	Jun	e 13	48	sites	Sept	19	22	Louisville, Ky.: D. Distler convicted of	May	9	19
TDI outlook: flexible-foam market				CMA's Bob Roland aims at being part of the solution—Viewpoint	Sept	28	5	dumping toxic chemicals into sewers.R	Sept	26	24
grows (charts)	Jan	24	35	CMA plan: EPA officials cautious. N	Sep1	26	14	Maryland Governor asks for "immediate assistance" in removing chemicals			
combustibility performance standard .	Sep	t 12	25	Costle welcomes help on wastes: will				assistance" in removing chemicals illegally stored in tanks in a shutdown			
U.S. producers of plastic resins launch new round of expansion projects				make CMA study public	Sept Oct		19 45	oil recycling plant in Sharptown,		0.0	200
(table)	Sep	nt 5	17	CMA seminars will show how to handle				Md R Mercury	Oct	24	24
				disposal of hazardous wastes N Eckhardt calls for tougher enforce-		10	14	Olin asks for a change of venue in			
V				ment of hazardous-waste rules N	Oct	17	18	mercury trial	May	2	18
				EPA drafting bill for post-closure				publicity	May	16	24
Vaccines see Drugs Varnish—Envirosol System for do-it-				cleanup of disposal sites N EPA granted four-month delay in	Aug	29	18	Mercury mea urements debated	Aug	8	20
yourself paints and varnishes: New				deadline for hazardous-waste rules N	Dec	19	18	Olin plans appeal in mercury-discharge			20
coatings work like solvent systems, but			40	EPA hazardous-waste plan will cost \$25 billion says chemical firms	lan	10	47	Case		29	49
clean up with water	Ma	y 16	42	on omitted says triedlines in itis	- veri	10		Judge weighs Olin's dismissal requests .	Sept	12	20

Michigan charges that a state-licensed				Celanese anaerobic-filter waste-water				City water-treatment plants requests for			
hauler of toxic wastes illegally dumped pesticides into an open pit in rural				treatment system cuts costs, generates energy	May	23	42	pollution discharge: U.S. Supreme Court will decide what EPA must do			
Livingston County	Mar	28 28	23 20	Chem Show exhibitors	Nov	14	67	to hear public objections N DDT residues at Redstone Arsenal in	June	20	18
Michigan seeks sites of Velsicol waste				Agency makes it easier for firms that				Huntsville, Ala.: Army refuses DDT			
National Wildlife Federation cites states	July	4	21	pretreat wastes to get removal allow- ances	Oct	17	42	cleanup, blames Olin for leakage EPA may sue Army for refusal to	Feb	14	12
doing the 'poorest job of protecting				O.H. system uses water under high	001	**	44	clean up DDT residues	Feb	21	25
their citizens from hazardous waste disasters"R	Sept	19	27	pressure to flush out wastes in ground, waste-laden water then treated with				DDT pollution found in Triana, Ala. residents blood	Mar	28	23
N.J. amendment makes the illegal				activated carbon	Sept	19	44	Dow findings on TCDD around Midland.			
dumping of hazardous wastes a major criminal offense	Sept	19	27	Pollution control-business: hopes top profits in pollution control	Nov	7	52	Mich. plant criticized by EPA	Feb	21	25
N.J. and federal government will estab- lish first coordinated environmental				Rollins Environmental Services gears up				problems: Survey of environmental	Feb	21	41
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Kin Buc landfill in Edison, N.J.:		17		Valley of the Drums' to be model waste site.	May	9	19	in the dark or in foggy weather being tested N	July	26	46
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several parties	May	10	17
sold to Macalloy Inc	July	200	24
SEC sues two BOC firms over disclosures	July	23	24
in tender offer for Airco N	Feb	28	13
irwick Industries-Carpet Fresh: carpet-		20	
freshener market	Mov	28	46
iscondel S.AMonsanto to close some			
Spanish polystryrene units N	Dec	19	26
kzo-Annual meeting: Company may			
trim operations to boost profitability N	May		60
Lowlands CPI tries for new highs	July		34
Sales and earnings: 78 N	Mar	14	40
kzona IncAcquires General Circuits,			
Inc. and Garry Manufacturing Co N Diversification payoff: Ramsey before the New York Society of Security	Aug	15	13
Analysts	May	9	18
Sales and earnings: third quarter	Oct	17	23
laska General Stock Ownership Corp.— Alaskans could get a share of oil pipe-			
line under proposed stock plan	Mar	7	46
laska Petrochemical Co.—Alaskans could			
get a share of oil pipeline under pro-		-	40
posed stock plan	Mar	7	46
and petrochemical complex at Valdez,			
Alaska	Aug	8	22
Iberta Gas Chemicals—Gas-based plants	riug	0	44
in Alberta (table)	Dec	10	27
Methanol plant at Medicine Hat, Alta:	500	10	-
capacity to be doubled despite adverse			
U.S. ruling N	Aug	8	25
	· mg	-	

Alberta Gas Ethylene-Gas-based plants				
in Alberta (table)	Dec	19	27	
Red Deer, Alta plant expansion N	Sept	19	39	
plant with Diamond Shamrock will be				
onstream late this year N	Oct	10	13	
Alberto-Culver-Sales and earnings R May				
2-51	Nov	7	41	
had a very, very bad year"	Oct	24 -	36	
Alcan Aluminum-Aluminum powder ca-			-	
pacity boost N Australian aluminum plant proposed . N	Nov	14	17	
Australian aluminum plant proposed. N Force majeure on supply of fabricated	Aug	15	29	
products declared	June	27	27	
products declared				
sion	May	9	42	
Alcan of Canada-China seeks Western	Oct	31	30	
aluminum technologyN Alcolac Corp.—Blinoff, Marie Louise, chairman and chief executive officer:	001		00	
chairman and chief executive officer:				
She's continuing in her late husband's tradition	Apr	25	64	
Hydroxyethyl methacrylate soft-lens	Lebs.	20		
material	Oct	3	38	
Alcon Optic Market for lens chemicals	Oct	3	39	
Algonquin Gas Transmission Co.—Joint pipeline to import natural gas from				
Canada planned N	Aug		17	
Allan Potash-Potash capacity (table)	Aug	22	33	
Allegheny Ludlum Industries-Cheme-				
tron's South American gas interests purchase: negotiations off R	June	27	27	
Allemania Chemical Co,-Contract to				
American Lurgi to boost capacity of its	Oct	3	26	
Plaquemine, La., methanol facility R Allergan Pharmaceuticals, IncMarket	Oct	3		
	Oct	3	39	
SmithKline set for big entry to eye-care				
field with acquisition of Allergan Pharmaceuticals	Dec	19	22	
Allied Chemical—Acetone prices N	Apr	18	23	
Adipic acid prices N Allied charts a new course: Edward	May	2	49	
Hennessy sets quick pace in search of				
higher profits	Nov	7	42	
higher profits				
Chemical? N Annual meeting: some touchy issues	Dec		17	
Armco coke-oven lawsuit settled	Sep		19	
Ashland Oil acquires South Point, O.,			22	
chemical plant	Jun	e 6	9	
Calcium chloride prices N California air rules: San Francisco Bay	Sep		65	
California air rules: San Francisco Bay				
	July	4	19	
court				
be trained at Moncure, N.C. plant		-	00	
under agreement with Zimmer R Chinese will train in U.S. plants	Feb Sep		28 70	
Chlorine-caustic outlook (charts & table)	Mai		30	
Coast Guard probe clears sodium bisul-				
fite in asphyxiation death of two crewmen aboard shrimp fishing vessel .	Aug	22	37	
Congressional waste-disposal survey:	ruj	, 22	31	
companies gather data	May	9	32	
connor, John 1,: appointed chairman	No	14	22	
Connor, John T.: appointed chairman of the board of Schroders Inc COWPS' Kahn's criticism angers CPI	140			
executive	Apı	4	31	
Dyestuffs industry: overcapacity impels company to sell out (charts & table)	July	4	16	
-Letter	Aug	1	6	
Eltra Corp. to be acquired N	July		13	
—Letter. Eltra Corp. to be acquired N Shares to be purchased R Ethylene: markets, capacity etc. (chart & table).	Au	15	24	
	Oct	3	32	
Fetal safety controversy Jan 10-18,				
Jan 31-21, May 16-25	Oct		23 38	
Fluorspar mining and milling operations				
to be sold to Equities Holding Corp., R	Au	9 1	18	
Hennessy, Edward L. Jr. elected a director of The Travelers Corp	Au	g 22	20	
Hennessy, Edward L. Jr. will become president and chief executive officer			0.5	
_l etter		r 4	25	
	Ap			
Allied spends a year finding a presi-	1.6 a		5	
Allied spends a year finding a presi-	Ma	y 9 r 11	39	
Allied spends a year finding a presi- dent	Ma Ap Ser	y 9 r 11	39	
Allied spends a year finding a president. HDPE expansion N Aug 1-9. HDPE markets: producers, capacity etc.	Ap Ser	y 9 or 11 ot 5	39 17	
Allied spends a year finding a presi- dent HDPE expansion N Aug 1-9. HDPE markets: producers, capacity etc. (table). Kickback charges indict company and	Ap Ser	y 9 or 11 ot 5 ot 19	39 17 33	
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Allied Chemical Foundation-Corporate			
aid to education	May Apr	11	62 31
aid to education Allied Products – Lime markets (chart). Allis-Chalmers – Illinois coal-gasification demonstration plant near Wood River			
ahead	Jan	24	17
take a cautious approach to glass-repair		4	45
technology	Apr.		45
Alton Box Board-Dura-Drum, hexagonal	Apr	25	17
	Jan	10	29
athulana avannalan	Feb	28	52
Altos Hornos de Vizcaya—Spanish CPI faces production cutbacks to help re-			
duce pollution	Oct	10	41
table)	Jan	31	29
near Newcastle	May	9	42
Australian buildup	Feb	28	53
production cutbacks to help reduce	Oct	10	40
Aluminum Co. of America-Aluminum:			
relief from shortage is in sight N Aluminum markets (charts & table)	Feb Jan	28 31	28 29
Aluminum prices N China seeks Western aluminum tech-	Mar	28	28
nologyN	Oct	31	30 19
Chlor-alkali project near Houston: 50-	1.60	,	10
50 joint venture with Formosa Plas- tics	July	11	13
Chlorine-caustic outlook (charts & table) Furnaces have dual firing capability	Mar June	14	30
Alcoa of Australia Ltd.—Alumina refining			
and aluminum production capacity ex- pansion	May	9	42
Aluminum smelter in Victoria plannedN Australian buildup	Apr Feb	18 28	26 53
Forecasts aluminum shortages in 1980s N Alusuisse Group—Sales and earnings '78 N	June Apr	18	30 26
Venezuelan alumina plant scheduled for			31
Alwest Consortium-Australian buildup	Oct	24 28	53
Alyeska Pipeline Service CoAlaskans could get a share of oil pipeline under			
proposed stock plan Drag-reducing additive may get more oil	Mar	7	46
out of Alaska pipeline	June	27	26
Alza Corp.—Controlled-release contracep- tive system involves polymeric capsules			
implanted under the skin	Oct	17	51
form new company for the production			
of magnetic iron oxides in Japan R Amax Forest Products, Inc.—To be bought by partnership formed by E.F.	July	4	22
Hutton Group, Inc. and Tree Farmers			
of America, Inc	Jun		17
Forest-products division to be sold N	July	e 20	21 17
Forest-products division to be sold N Molybdenum markets (table) Mount Emmons, Colo, moly project	Mar	7	30
faces uphill fight: Amax hopes to show mining and skiing can coexist	Aug	15	33
Potash capacity (table)	Aug		33
tiating purchase	Nov	7	25
Amerada Hess-Removed from the list of those not complying with the federal			
wage-price guidelines	July	25	19
Div.—Cement for shoe repair	May	16	41
from under ozone cloud	Nov	v 21	22
Cogeneration project in Green Bay, Wis.	Aug	15	19
hits snags	Jan	10	13 42
Lignin specialties get a \$5-million boost. Lignin sulfonates, wood chemicals, inject new life into tired oil wells			
Lignosulfonate systems for tertiary oil	Jun	ne 20	65
recovery	Ma	y 30	55
knowledge of take-over bid	De		
Aromatic intermediates and dve prices N	Ma Ap		23 29
Bound Brook, N.J. plant workers return to work after 52-day strike	Jar	31	19
Bound Brook, N.J. plant cancer study	Sea	ot 19	
due	Oc		
Catalysts report. Donald r. Burke rt II:	Ap	r 4	63
Who's who in catalysts DiPlacido found that he 'just enjoyed work too much' to retire. Diversification payoff: Affleck at Cleve.	Ma	ır 28	32
Diversification payoff: Affleck at Cleve- land Society of Security Analysts	Ma		
Fetal safety controversy	Jai		
on the fetus	Jai	n 31	21
OSHA seeks \$24,000 in fines from Cyanamid		y 16	25
Cyanamid is charged in sterility case Formica tradename gets support in	Oc		
Congress N	Ma		
FTC's action on Formica helps spur	Ju		
increased trademark policing Forms an environmental services divi-	. Au	19 18	45
sion	Ma		
Hydrodesulfurization catalysts in Gos	. Ju		
port, England get capacity boost N	Se	pt 2	32

emen Inc will how moreum feateium			
sulfate) waste generated at titanium			
flanagement changes: George J. Sella,	Aug	29	43
emoo, Inc. will buy gypsum (calcium sulfate) waste generated at titanium dioxide plant in Savannah N Aanagement changes: George J. Sella, Jr. elected president; Tressurer Martino becomes v-p.; Liffers elected member			
tires	Sept Sept	26 12	16
OCAW lockout at Fortier, La. plant		21	26
restricted to combat fire ants: EPA authorizes tests			
Sales and earnings: Cyanamid counting	Nov	14	42
on record 1978 earnings	Jan Oct	3	20 40
Surface active agent prices N	Feb	21	30
Frederical melicina, firms string to keep	Aug	8	23
well-known trademarks out of com-	Aug	15	45
Urea melamine plant at Wallingford,			
Conn. expansion	Jan Mar	14	21
well-known trademarks out of common usage Urea melamine plant at Wallingford, Conn. expansion. R Wallcoverings market merican Disposables Corp.—Adult dia- pers	July	18	40
pers merican Enka—Nylon prices N Phasing out dyed polyester yarn N	May	16	30 13
Rayon: New products, better cost	Feb	28	13
Rayon: New products, better cost comparisons are giving rayon a new	June	6	27
image (charts)		7	
closing	Mar		24
Corp. spurns bid by Ashland Oil merican Hoechst Corp.—Ad campaign	Aug	8	18
	May	30 29	65 27
to make itself better known in the U.S Bayport Te. plant	Aug		-
HDPE plants. N Celanese's polyester film business to be purchased for \$75 million. N Purchase completed. N DOE decision on boilers for Texas	May	9	13
purchased for \$75 million N	Apr Aug	18	13 17
DOE decision on boilers for Texas			
HOTE plant swarted,	Dec	12	18
Mount Holly, N.C., resin plant capacity	Nov	7	25
to be doubled			31
American Lurgi-Allemania Chemical a-	Feb	7	31
American Jojoba Industries—Jojoba Plant research	Oct	3	25
Surface retort is set for oil-shale test . N	July		46
Detroit's efficiency drive (table)	Sept	19	20
Plaquemine, La. methanol facility. R Surface retort is set for oil-shale test. N American Motors Corp.—CPI will fuel Detroit's efficiency drive (table) American Natural Resources—Acquires Bates Mfg. from Virginia Iron Coal and Coke R			
and Coke	June	6	22
sources acquired	Juni	6	22
iect in the U.S. approved by FERC in			
Beulah, N.D	Nov	21	46
porter	Jan		42
American Optical—Contact lens business . American Thermoplastic Corp.—Head-	Oct	3	38
porter American Optical—Contact 'ens busines . American Thermoplastic Corp.—Head-quarters to move to Houston; compounding division of Phillips Products to be conscilidated into operations.			
to be consolidated into operations R	July	4	22
Shelby, Anthony O. ("Tony"), presi- dent: He learned the resin business			
'language',	Dec	5	88
Shelby, Anthony O. ("Tony"), president: He learned the resin business 'language'. AmeriGas, Inc.—Acquires Dye Carbonic, Inc. and certain assets of Gil B. Dye			
Edmunds Edward is president of	July	11	22
AmeriGas and vice-president of UGI: He likes to build things, not just operate them			
operate them	No	14	88
operate them			
be used to make low-cost photovoltaic	No	v 7	47
Amoco Canada Petroleum Co. Ltd			
Research in enhanced recovery	Jur	ne 13	24
court, Alberta to be bought R Amoco Chemicals—Brennan at Southwest	Jan	17	22
Chemical Assn, meet gives rosy fore-			47
cast for petrochemicals Ethylene: markets, capacity etc. (chart & table)			
& table). HDPE markets: producers, capacity etc.	Oc	t 3	32
(table)	Sej	ot 19	33
NGL overcharges: DOE files court action	. Jar	17	19
New castle, Del. employees tested for asbestos diseases	. Ap	r 11	25
Polyester hottles to be made at newly			
Polypropylene markets: capacity (table)	Oc	t 24	29
Polypropylene prices N Mar 14-24 N PTA process problems hit plants in			
Decatur, Ala. and Cooper River, S.C Amoco Foods—Torula yeast from food	. Fe	b 21	26
grade ethanol	. Ai	19 1	28
foreign petrochemical interests P	t I Ma	y 16	35
Amoco Oil-Challenges DOE's use of entitlements to spur gasohol projects. N	f No		
MTBE capacity under construction ?	i Ma		
OCAW negotiations N Jan 3-13, R Jan 10-21		n 17	7 18
Virginia gets tough on benzene and asbestos.	d , Ju	ne 6	3 22
Amoco Production Co.—Natural gas fin	d		-

Navajos' taxing scheme challenged	Mar	7	17	Armak-Ketjen-Catalysts for Union Oil	_			forecast	Aug	22	17	
Tertiary recovery program in the Permian basin: production could start				Armco Inc.—Allied settles Armco coke-	Oct	31	23	Electricity from coal by MHD tested, N	Feb	14	35	
by mid-1984 R	July	25	24	oven lawsuit	Sept	26	19	Avon Products—Sales and earnings up	Nov		41	
Amoco (U.K.) LtdRefinery at Milford		-	47	Armstrong Cork-Hofferth discusses no-				Avtex Fibers Inc.—Chemically crimped				
Haven, Wales expansion	Nov	/	17	wax flooring at CSMA meeting Aromatics International—Reynolds, R.J.	Dec	12	39	rayon set for commercialization N Crutchfield, Jim, vice-president of mar-	Apr	4	29	
and chemicals. Era of peaceful coexis-				Industries plans sale R	Feb	14	18	keting: He weaves a new career from				
tence?-report, Meyer Lurie (tables)	Oct		70	Aron, J. & Co.—Silver prices N	July	25	33	familiar materials	Mar	28	64	
Plastic colorants prices N Weil talks olefin prices, new products	Feb June		30 42	Arrow Company—Cotton shirts are wrinkle-free	Feb	7	25	Rayon: New products, better cost comparisons are giving rayon a new				
Ampex CorpPerry discusses magnetic	Julie			Asahi Chemical Industry Co., Ltd	1.60	,	23	image (charts)	June	6	27	
tape at CMRA meeting	Feb	21	40	Chromatographic method for separating				Rayon prices N May 16-30 N	Dec	5	49	
Amvac Chemical-DBCP: firm cited for	Feb	7	18	ethyl benzene and para-xylene from mixed-xylene streams: ACS meeting	Ame	11	46	Ayerst Laboratories—Inderal: heart drug	Mar	7	35	
failure to report use	Len	,	10	Process for making methyl methacrylate	Apr	11	40	approved for migraine headaches N Study links estrogen use with uterine	Mar	,	30	
California's DOSH	May	16	26	(MMA) from isobutylene (or tert-butyl				cancer	Jan	10	18	
EPA bans most remaining uses of pesti-		-		alcohol)N	Dec	5	65					
cide DBCP N Anaconda—Aluminum markets (charts &	Nov	7	14	Sales and profits up sharply (table) Tenac PT 300, acetal homopolymer can	Nov	21	33	_				
table)	Jan	31	29	be electroplated N	Oct	17	40	В				
Atlantic Richfield, FTC move to settle			40	Asarco-Cadmium products prices N	Aug	15	35					
review of Anaconda merger N Copper prices N		14	13 36	Zinc oxide prices, N Asbestos Corp.—Quebec moves nearer to	Aug	15	35	BA Asia LtdChina will become a big				
Uranium cartel suit	July		26	acquiring Asbestos Corp N	June	27	36	petrochemicals exporter N	Dec		26	
Anamax Mining-Atlantic Richfield, FTC				Canadian suit filed to prevent takeover				BASF AG-ACHEMA 1979.	July	4	42	
move to settle review of Anaconda mergerN	Mar	14	13	by province of Quebec N Ashaway Line & Twine Manufacturing	July	4	47	Brazil's Camacari complex (table) Ethylene: markets, capacity etc. (chart	May	23	21	
Anchor Hocking-Strike at St. Paul,				Co.—Poromeric grips for tennis racquets .	Aug	22	43	& table)	Oct	3	32	
Minn, plant R	Mar	21	26	Ashland Chemical CoAllemania Chemi-				German CPI regains some vigor. Silke			47	
Anchortank Inc.—Stantrans acquires butadiene storage facility R	Mar	28	25	cal see under name Calumet City, Ill., resin plant destroyed				McQueen (charts & tables)	June	20	47	
Anderson, Arthur Co.—Automobile study:			20	by explosion last year to be rebuilt . R	Apr	11	25	Oryzalin	Nov		28	
Delphi survey Aug 15-19	Sept	19	21	Hall, John R. and Edward L. Von Doer-				Naphtha prices N	May	23	30	
Anglo-American CorpUranium cartel	July	26	26	sten: Oil and chemicals. Era of peace-				Pilot plant in Brazil to test a new pro- cess for making olefins and aromatics				
suit	acity	23	20	ful coexistence?—report. Meyer Lurie (tables)	Oct	17	70	from alcohol	Nov	28	50	
CPI losses exceed \$1 billion (table)	Jan		32	Hercofina methanol plant in Plaquemine,				Process to make ethylene and propytene				
Technology for MTBE plants N Anken Industries—Rhone-Poulenc makes	Oct	17	69	La. to be bought R	May	9	21	from methanol N Sales and earnings: nine-month 79 N	Aug	5	27 51	
acquisition bid	May	9	18	Idol, James D., director of venture research: He made some dramatic				Warehouse fire destroys supplies of	Dec	9	31	
Ansul Chemical Co.—EPA updates its list				changes pay off for him	Feb		61	pesticides and plastics N	June	27	36	
of hazardous-waste sites	July		23	Polyester plastics prices N	Feb	28	28	BASF Wyandotte-Basagran, herbicide, made at Geismar, La	Oct	10	36	
Anzon America—Antimony oxide pricesN Apache Powder Co.—Explosives industry	July	20	33	Schering AG acquires three plants in Mapleton, III., Janesville, Wis., and				Block-polymer surfactants, named Tetro-	OCE	10	30	
forecast	Aug	22	17	Oakland, Calif R	Jan	17	22	nic R polyols	May	23	34	
Apex CorpVirginia gets tough on	luna	6	22	Semiconductors: chemical market (table)	Nov	21	15	Catalysts report. Donald P. Burke Pt II: Who's who in catalysts	Apr	4	63	
Apollo Technologies – Boiler-fuel additives.	June		33	Ashland Oil Inc.—Acquires Allied Chemi- cal's South Point, O., chemical plant . R	June	6	22	Chlorine-caustic outlook (charts & table)	Mar	14	30	
Applied Graphics-Computer graphics				Ashland may expand away from Ash-	Guine	-		Chlorine prices N		7	32	
Approved Industrial Removal-Michigan	Feb	14	37	land, Ky	Sept		18	Dyestuffs industry: company digs in as				
sues over waste disposal at Hooker's				Ashland-Warren Inc. to be sold R Divestments were part of corporate	Jan	31	21	four dye-makers rall out (charts & table)	July	4	16	
Montague, Mich, plant	Mar	7	20	strategy to tighten up, sort out; chemi-				-Letter	Aug		6	
Countersuit in Michigan	Apr	18	18	cals still play big role	Mar	21	43	Fighting Island waste-disposal site in				
Aquagil—Nalco France to purchase com- pany	Apr	4	26	H-Coal: Senate budgets \$7.5 million more for H-Coal process	Oct	10	24	the Detroit River under scrutiny First U.S. MDI operation slated at	Dec	12	24	•
Arab Detergents Co.—Synthetic-detergent				Moorhead bill appraisal	July		21	Geismar, La	Oct	24	13	1
Petroleum Investments Corp.—	Nov	14	76	NLT Corp. spurns bid by Ashland Oil	Aug		18	Foreign-owned firms looking at U.S.				
Synthetic-detergent plant N	Nov	14	76	Process converts shale oil into jet fuel N Sale of oil and gas properties	June	13	23	Geismar, La., complex to produce mor-	May	30	66	,
Arab Potash CoCommitted for potash				Johns-Manville wants to buy proper-				pholine and aminoethoxyethanol R	Nov	14	42	2
sales		10	53 40	ties	Jan		21	Pix growth regulator	Oct		36	
Potash complex building to begin N Potash market	Jan Aug		34	Petro-Lewis to acquire properties N Bids for properties total about \$750	Feb	7	13	TDI market outlook (charts)		24	35	
Arabian Seacil CorpCorco bank untry	riag		•	million	Feb	7	22	BH South Ltd.—Conzinc Rio Tinto makes takeover offer	Oct	3	31	
talks with Fuerto Rican government . R	Jan	10	21	Ashland Oil Ltd. to be sold to con-				BMI LtdTo test market fly ash as		-	-	
Corco may okay bid for Arabian Seaoil . Arabian Seaoil agrees to \$70 million	Jan	24	14	sortium headed by British National	F-1	44	9	concrete additive		14	51	1
deal N	Mar	7	13	Oil Corp	Feb		17	Babcock & Wilcox-Dow Chemical's Midland, Mich. nuclear plant studied				
Corco's common stock trading R	June	e 20	28	Shale oil as a jet-fuel source studied	Sept	5		for changes	May	2	18	1
Corco emerging from Chapter XI on	July	4	13	Ashland Synthetic Fuels, IncH-coal				Fluidized-bed boiler with guarantee				
its own?	Oct		26	plant at Catlettsburg, Ky.: DOE coal plant study 'distorted' says Ashland	June	27	25	offered N Feb 21-37	Mar Sept	7 5	36 23	
Corco settles claims, has takeover				Ashland-Warren IncSold to undisclosed				TVA fluidized-bed plant contract	Sept		23	
Offers	Dec	5	22	buver	Jan	31	21	Badger-ACHEMA 1979	. July		43	8
Archer Daniels Midland-DOE considers entitlements	Sent	t 26	24	Associated Octel—Australia testing filters to cut lead emissions N		15	38	Electrical field may help recover oil from shale	One	24	38	
Gasohol gets in on entitlements N	Oct	3	43	Atlantic Cement CoConverted from oil	riag		30	Methanol from coal: Pittsburgh con-		24	30	
Amoco challenges use of entitlements				to coal as kiln fuel in its plant at Ravena,		-		ference	. Aug	8	38	5
to spur gasohol projects N Soy protein market	Apr	28	18 .	N.Y	June	e 20	21	Badische Corp.—Acrylic monomers prices N		e 20	32	,
Arco Chemical CoChlorine and ethy-		,,,	30	panies brace for TSCA's impact	May	2	57	Butanol price discounts start to fade		e 20	34	
lene for Formosa Plastics N	July	y 11	13	Atlantic Research CorpLARC (light-				away N	l Apr		27	
MEK project at Channelview, Tex. planned N	Oct	10	13	activated reduction of chemicals) pro- cess removes halogens from wastewater				Butanol prices N Caprolactam prices N	i Apr		37	
MTBE capacity under construction					May	, 2	53	Neopentyl glycol plant at Freeport,				
Apr 11-43 N	May	y 30	55	Atlantic Hichfield—Alaskan pipeline pro-				Tex F	l Jun	e 13	22	
NGL overcharges: DOE files court		17	19	posed by Northwest Alaskan Pipeline Co.: Oilmen have hope for natural gas				Neopentyl glycol prices		15	35	5
Polymeric isocyanates plant at Lyondell		/	10	line	Aus	9 29	25	Sales growth seen; capital spending plans	Jan	17	17	7
complex in Channelview, Tex R	July	y 11	22	Anaconda merger: FTC move to settle	1			Bakelite Xylonite LtdPolyoflefin mar-				
Reward offered for information that would help police solve the murder of				review N		14	13	Rets	. Jun	e 13	31	8
one of its executives, Nancy Ross R	Mar	r 28	25	Ethylene: markets, capacity etc. (chart & table)	. Oct	3	32	business		28	20	6
Sorgenti, Harold A., president: Almost				Fluid catalytic cracking unit at Phila-				Increases in domestic drilling predicted	. Ap	r 18		
a CE dropout, he stuck and made it	A	- 20	60	delphia refinery: \$100 million for	1 11-	. 20		Baker, J.T. Chemical DivKlass, Paul				
Sorgenti, Harold A.: Oil and chamicals.		g 29	00	Gasoline octane booster gets EPA go		y 20	13	president: A strong believer in R&D Semiconductors: chemical market (table)	. Au	g 1 v 21	1	
Era of peaceful coexistence?-report				ahead	l Fet			Ballestra Group-Wiped-film systems	. Fel	28	4	9
Meyer Lurie (tables)	. Oct	t 17	70 17	LDPE capacity, markets (chart & table)	. No	v 7	34	Bangor Punta Corp.—Cement demand	. Ma		1	6
ARCO/Polymers-HDPE markets: pro	. 26	pt D	17	MTBE: EPA keeps open mind	. Jan			Barber Oil Corp.—Engelhard moves toward acquisition	N Sm	ot 12	1	3
ducers, capacity etc. (table)	. Ser	pt 19	33	OCAW negotiations N Jan 3-13, R Jan	n			Hanson Industries Inc. makes competin	g			
Argo Paint & Chemical-Acquired by DeSoto, Inc	h-1	y 25	24	10-21	. Jan	17	7 18	merger proposal	N Sep	ot 26	1	3
Aries International Group-Robert S	. Jul	7 20	24	Oxirane's Channelview, Tex. ethylene glycol plant closing could trim ne				Barilla S.p.A.—Grace sells interest to Finbarilla, S.p.A	N Au	g R	1	3
Aries plays a return engagement	. Ser	pt 19	24	income	l De	c 8	5 17	Barnard and Burk Inc.—Rubicon contrac	2			*
Arizona Chemical CoDOE consider			24	Polypropylene markets: capacity (table)) Oc	1 24	29	for MDI unit at Geismar, La	R Au	g 15	2	4
entitlements	. 261	pt 26	24	Refinery projects (table)	. Au			Barnes Engineering—Infrared scannin equipment	g Ma	28	3	8
voltaic concentrator system to provide	9			Atlas Corp.—Uranium cartel suit Atlas Powder Co.—Atlas and Nobel form		y 28	5 26	Barnes-Hind Pharmaceuticals—Market fo	DF 31	-	3	-
electricity to the local airport gets fund				new team in explosives	V Jul	y 11		lens chemicals	. Oc	t 3	3	9
from DOE	- Jui	ne 27	31	Explosives industry forecast	. Au	g 22	2 17	Barnhill-Hayes-Affirmative-action prior	A-	g 25		19
port, Donald P. Burke Pt II: Who's who)			Explosives production unit at Joplin Mo, addition		b 14	18	Bartholernaw & Associates—Monsanto	18	9 63	-	-
in catalysts	. Ap	or 4	63	Auric Corp.—Semiconductors: chemics	ıl			Bidim polyester for a water-management	ret .			20
Nitrile production capability at Morris III, fatty amine plant increased F	00	t 24	24	market (table)	. No	w 2	1 15	system	. Ju	ne f		32 33
print more print in the print i		6.7	-	Austin Powder CoExplosives industri	y			Basic Chemicals—Boiler-fuel additives				

Soils Section to Alexander and Section				Weyerhaeuser sweetens its tender				Texas sues over toxic waste spread on			
Basic Resources, IncLignite: gasifica- tion, pelletizing tests show way to more				offer N	Aug	1	9	roads	June	6	19
efficient use of lignite	Aug	22	36	IP's bid for Bodcaw succeeds N Boehringer Ingelheim-German CPI re-	Aug	15	13	Eckhardt questions BFI on disposal practices	June	27	23
to acquire interest R	May	16	28	gains some vigor, Silke McQueen (charts				Brunswick Mining & Smelting—Air Liquide plant at Brunswick lead smelter R	Mar	21	26
Bates Manufacturing—Acquired by American Natural Resources	June	6	22	& tables)	June	20	47	Buffalo Color Corp.—Allied's dyestuffs	Mar	21	20
Bettelle Columbus Laboratories-CHT	00110	-		ing research	June	27	32	plant to be taken over (table) Burton, Parsons & Co.—Market for lens	July	4	17
shows formaldehyde may cause cancer in rats	Oct	17	40	Boeing Engineering and Construction— Centrifuges for DOE's uranium en-				chemicals	Oct	3	39
Fluidized beds may be used to burn	A.v.	24	00	richment program N	Aug	22	36				
sludge N Silicon fabrication for low-cost solar	Jan	31	36	Partners sought for coal pipeline to be built from Utah to West Coast R	Feb	14	18	C			
cells N	Mar	7	35	Bofors Lakeway IncCederberg, Haakan,				CBS-CBS and others sued by New Jersey			
Tin-nitride process to recycle nuclear fuel: study due N	Nov	21	46	vice-preside at: This Swede doesn't fit the mold	Sept	12	60	chemist over report on pollution	Sept	12	25
Battelle Memorial Institute-Electrode-				ICWU seeks ban on Eli Lilly herbicide	Nov	14	28	CdF Chimie-Qatar may increase its stake		23	30
position of amorphous solar cell ma- terials	July	11	31	Michigan releases list of contamination				in French company N Venezuelan polyethylene plant N		14	44
EPA contract to evaluate methods for	Jan	10	33	sites	Dec	19	24	CF Industries—Phosphate-phosphoric acid markets (table)	Aug	1	26
testing toxics N Fetal safety: NIEHS studies effect of				are accelerating their buildup in pulp				Transco ordered to pay more in damages.	Feb	28	24
four chemicals on the fetus	Jan	31	21	and paper (charts & table) Pulp, paper workers settle strike	Aug	21	13	CTIP SpA—Chinese contracts (table) Cabo Negro—Joint venture ethylene pro-	Jan	17	20
procedures to repair pressurized pipe-	P.L		00	Bonne Bell-Bell at Cosmo Expo discusses				ject N	May	9	13
lines N Battelle Pacific Northwest Laboratories—	Feb	14	36	"targeted" advertising Borden-Chemical Div. president Robert	May	2	51	Cabot Corp.—Charpie at AAAS annual meeting discusses R&D	Jan	17	29
Non-electrolytic chlorine process uses	Feb	7	36	W. Gutheil: He's strong on selling but	feeler	25	59	Iran will buy out foreign petrochemical	May	16	35
heat from coal combustion N Studying production techniques for the	ren			only if done 'right'	July	25	54	interests	Nov	21	17
glass waste form	May	9	30 38	Phenolic resin prices N Feb 28-27 N Phosphate-phosphoric acid markets	July	4	28	Cadence Chemicals-DOE considers en- titlements	Sept	26	24
Bayer AG-German CPI regains some				(table)	Aug	1	26	Calendar Ltd.—Captive insurance com-			
vigor, Silke McQueen (charts & tables) Gruenewald at Society of Chemical	June	20	47	Polyvinyl chloride expansion PVC plant at Geismar, La., petro-	Sept	5	17	Calgon Corp.—Boiler-fuel additives	Oct	31	41 33
Industry symposium	Oct	10	19	chemical complex N	Aug		13	Car-wash chemicals	May	9	36
Haarmann & Reimer see under name Hydrazine's worldwide markets (chart)	Sept	12	34	Sales and earnings—third-quarter	Nov	14	22 44	Conger, Harry C., vice-president and general manager: Flying helped his			
Iran: Trying to cope with chaos in			24	Worker-information case to be appealed.	May	30	21	career to take off	Nov	7	60
Sales and earnings: nine-months '79 . N	Jan Dec	5	31 51	Borg-Warner Chemicals—ABS expansion at Port Bienville, Miss N	July	18	17	California Asiatic Oil—Australian offshore natural gas project	Feb	28	53
Sales of U.S. affiliates in 1978 R	Apr	4	26	ABS prices N Feb 7-30, N Mar 21-32,				Calspan Corp.—Smog chamber to be used			-
Bayerische Motoren Werke AG-UOP	Apr	18	26	N Hay 9-23, N June 13-36, N Aug 8-23 N	Oct	17	54	by EPA to study aerosols from diesel exhausts	Feb	14	35
signs pact with BMW on car catalysts. N	June	6	13	ABS terpolymers expansion	Sept		17 23	Caltex Oil-Lead limits in metropolitan			
Bear Hybrid Seed Co.—Research opera- tions: Unilever acquisition	Oct	17	25	Ethylene: markets, capacity etc. (chart	Apr	18		New South Wales cause cut in gasoline output at its Kurnell refinery N	Aug	15	38
Beard Engineering-Feasibility of making gas from heavy-oil residue is subject of				& table)	Oct Mar	3	32 13	Cambridge Reports Inc.—Public opinion survey: People are still high on science			
study N	Nov	7	47	Merger plans restart N	Mar		17	and technology-Viewpoint	Jan	24	5
Beatrice Foods Co.—Food firm finds recipe for success in specialties	Sept	5	71	Merger called off	May	2	19	Campesi Enterprises—Chemical industrial park proposed for Louisiana N	Oct	31	39
Bechtel CorpMoorhead bill's goals:				resins plant onstream at Grangemouth,				Canadian Industries LtdCanada's CPI			
appraisal	July	18	21	Scotland N Phosphite additives prices N	June Feb	13	40 28	(chart & tables)	Apr	11	49
back strong, but stays lean	Nov	28	28	Resin prices N	Jan	10	24	Ethylene plant at Edmonton, Alta.			
Phosphate-phosphoric acid markets (table)	Aug	1	26	Surfactant-chemical tabsN Boyden Associates—Executive recruit-	Sept	26	46	closing; contract to buy product N Gas-based plants in Alberta (table)	Sept	19	39 27
Beckman Instruments—Microlab 620 MX.	Mar	14	39	ment activity	July	18	36	Radial-flow converter to make sulfuric			
New control system architecture offers distributed process control N	Mar	14	37	Street-smart' execs in demand	Jan Dec	10	32 87	acid saves energy	Apr	25	58
Systems for control instrumentation Becton, Dickinson & Co.—SEC requesting	May	2	55	Boyle, John & Co.—Poromeric grips for tennis racquets	Aug	22	43	prices N Mar 7-32	Aug	8	18
either that Sun Co, be ordered to divest				Boyle-MidwayCharcoal startup products:				bidder N	Feb	21	37
Becton, Dickinson & Co. stock illegally acquired or that sellers be deprived of				Wizard	July	10	33 45	Carsulex – Sulfur prices	Aug	8	18
the premiums they received R	Sept	26	24	Braun, C.F. & CoAmmonia plant				bugs in grain storage bins N	June	13	23
Beech Aircraft Corp.—Fuel system for operating autos on liquefied natural				builders settle patent dispute Bridgewater Manufacturing Corp.—Adult	Sept	19	26	Carbide Hashim Industrial Gases Co.— Saudi Arabian industrial-gas venture . N	Jan	17	13
gas N	Nov	28	34	diapers	July	18	40	Carboline CoMarine-coatings market	July	25	42
Beecham Group Ltd.—Acquisition offer of \$85 million made to Jovan, Inc N	Sept	5	13	Bristol Laboratories—Platinum-based drug cisplatin for anticancer drug therapy				Sun Co. plans acquisition N Carborundum Co.—Bonded-abrasives plant	Aug	15	13
3ell Laboratories IncBaker, William O.,			10	N Jan 3-34	Jan	31	42	to be built R	Oct	3	25
member of Hercules advisory council N Bell System—Chemical firms plan haz-	Sept	20	13	Bristol-Myers—Thomas discusses pack- aging	May	2	50	Flotation equipment	Jan Apr	24 18	39
ardous-materials accident-data system N Berlin and Farro Liquid Incineration—	July	18	34	British National Oil Corp.—Ashland Oil's interest in Thistle Field in North Sea				Synthetic Oil Corp. of America pur-			
Michigan sues over waste disposal at				purchased N	Apr	4	17	chases alkyd resin plant in Phila- delphia R	July	25	24
Hooker's Montague, Mich. plant Countersuit in Michigan	Mar	18	20 18	BOC Financial Corp.—SEC sues over	E.L	20	12	Caribbean Gulf Refining-Puerto Rico- report, Meyer Lurie (charts & tables),	Apr	11	56
Berman Buckskin-Grace, W.R. to acquire				disclosures in tender offer for Airco . N BOC International Ltd,-Britain's Price	Feb	28	13	Caribe Isoprene CorpCorco settles	Apr	-11	30
company N Berncolors-Poughkeepsie—Small chemical	Feb	21	17	Commission is getting tough N	Mar	28	37	Explosion, fire hit Puerto Rican units	Dec	19	22
companies brace for TSCA's impact	May		57	SEC sues over disclosures in tender offer for Airco	Feb	28	13	Puerto Rico-report, Meyer Lurie (charts	Dec	10	
Berolkemi-Wiped-film systems	Feb	28	49	British Petroleum-Alaskans could get a share of oil pipeline under proposed				& tables)	Apr	11	56
pany	Feb	21	17	stock plan	Mar	7	46	& table)	Jan	10	14
Betz Laboratories—Boiler-fuel additives	Apr	31	31	Australia: Slurry pipeline system for coal will be developed N	Sept	26	32	Carnegie-Mellon Institute of Research— Grace R&D contacts	Feb	21	38
Stock to be bought from funds from	lan	24	.7	Australian offshore natural gas project, .	Feb		53	Carodel Corp.—Rohm and Haas acquires			
sale of instrument subsidiaries R Big Three Industries—Nitrogen output	Jan	24	17	Britain's Price Commission is getting tough N	Mar	28	37	remaining equity from Teijin R Carrier Corp.—Merger with United Tech-	Feb	7	22
gains have slowed down N	May	23	24	British CPI braces for Thatcher's im-				nologies N Feb 7-13, N Apr 11-17,			
Billings Energy Corp.—Plans to convert 10 Dodge Omnis to hydrogen fuel	Oct	31	42	pact. Tim Keeley (charts)	Oct	24	32	R May 2-23 R Carter Oil—Coal-gasification plant near	July	11	22
Billington—Brazil's Valesul aluminum pro-	Eab	14	44	posed N	Oct	17	69	Troup, Tex.: partner sought N	Oct	10	13
ject might pass from state control N Billiton-Venezuelan alumina plant sched-	Feb	14	44	BP Chemicals Ltd.—BP to buy iCI's un- saturated polyester resin plant at				Carter Oil and Gas Ltd.—Hamilton Bros. Petroleum's Canadian oil- and gas inter-			
ules for 1982 N Biodynamics—Research on formaldehyde's	Oct	24	31	Wilton N	June		30	ests to be sold to Carter Oil and Gas . R	July	18	27
health effects	Nov	28	36	Business upturn, sales improve N Petrochemical products prices N	July		47 32	Carter-Wallace, Inc.—Mallinckrodt's drug business to be bought	May	23	13
Bio-ecology Waste cleanup costs	May	2	17	Broken Hill Pty. LtdAustralian off-				Carver Foundry Products-Acquired by		44	
a minority interest	June	27	32	shore natural gas project	Feb	28	53	IM&C	Nov	14	42
Bio-Lab, Inc.—Small chemical companies brace for TSCA's impact	May	2	57	developed N	Sept	26	32	to halve the release of formaldehyde	Maria	20	20
Birla Brothers Private LtdPulp and				Bromine Compounds—Bromine derivatives unit planned	Aug	1	31	from particleboard	Nov	28	36
paper mill for the Nigerian government.N Bissell Inc.—Market for carpet shampoos.	Sept	28	69 47	Brookhaven Laboratories-Polymer con-				ation plant at Rodange, Luxembourg	Feb	21	53
Black River Mining Company-Lime				crete overlays for roadbeds and bridge decks	Aug	29	53	Catalysts and Chemicals Europe—Process to make hydrogen by steam reforming			
markets (chart)	Apr	11	31	Brown & Root Inc.—Contract for Exxon's LDPE plant in Mont Belvieu, Tex R			30	methanol N	Oct	31	40
Oil N	Mar		13	ICI ethylene plant contract R	Aug	22 15	24	of Canada chlorine-caustic soda plant in			
International Paper makes offer R Weyerhaeuser offers \$655 million;	May	16	28	Brown, John Ltd.—Acquires Crawford & Russell N			35	Sarnia will supply the feedstock to	May	30	22
works out lease-or-buy deal with	6.6		12	Browning-Ferris Industries—EPA updates			-	liquid hydrogen plantR Catco—Catalyst regeneration plants	Feb	21	53
Mobil		11	13	its list of hazardous-waste sites Texas waste-disposal firms probed by	July	18	23	Celanese—Acquisition targets sought N Acrylic emulsion prices N	May		13 49
pushed N	July	18	17	Congress	May	23	18	Adipic acid prices N May 2-49 N			24

Anaerobic-filter waste-water treatment system cuts costs, generates energy	May	23	42	cause Legionnaires' disease N Tremco stock purchased N	July	25 29	45 17	Gout drug, Anturane: FDA panel recommends approval of gout drug to			
Annual meeting: earnings outlook good. Auto production cuts will have mixed	Apr	18	19	Chemetics International Ltd.—ACHEMA 1979: sulfuric acid recovery process	July	4	45	prevent heart attacks N Hercules' U.S. pigments business bought	Dec	5	66
impact on many chemical suppliers	Aug	22	18	Radial-flow converter to make sulfuric	Apr		58	R		15	24
Brown on innovation: The innovation review may succeed due to White				acid saves energy	Abi	23	30	MacKinnon, A.M. (Don), new president. Methapyrilene found to be carcinogenic.	Nov		
House and Congressional interest Butanol prices N Apr 18-23 N	Apr	25	42 27	negotiations with Air Products on sale of South American gas interests R	June	27	27	Sales and earnings N Mar 14-40 N	May May	9	14 39
COWPS' Kahn's criticism angers CPI executives	Арг	4	31	Dyestuffs industry: overcapacity impels company to sell out (charts & table)	July	4	16	Ciquine — Brazil's Camacari complex (table)	May	23	26
Engineering fabrics	June	6	32	-Letter	Aug	1	6	Circle Shoe Repair—Shoe-repair materials.	May		41
Fella comments on the recession	Sept Jan	17	16 38	Chemical Products Div. business R	Jan	10	45	Citicorp Industrial Credit—Gilbert: fastest- growing form of financing is commercial			
Forecasting: executives remain wary of projections	June	20	39	Chemetronics—Semiconductors: chemical market (table)	Nov	21	15	finance	June	6	40
Formaldehyde epidemiology studies	Nov	28	36 32	Chemical and Pollution Sciences-UOP's chemical division: some assests to be				subsidiary formed N Copper expansion with two projects in	Sept	12	13
Industrial chemicals prices N Intermediates prices N	Sept		36	purchased	Oct	31	23	Arizona	Sept	12	28
Mitsubishi fined in trade-secrets case involving the theft of polyester film				Jr., discusses adhesives at CMRA	Dec	12	39	Ethylene: markets, capacity etc. (chart & table)	Oct	3	32
process trade secrets from Celanese Oil-import breaks sought by chemical	May	9	19	Chemical Pipe & Vessel Co. LtdCon- centric plastic pipes find use in U.K.				Feasibility of making gas from heavy-oil residue is subject of study N	Nov	7	47
majorsN	Nov	7	24 36	for nuclear waste water	Aug	1	27	Hellwig, L. Robert, executive V-P of Cities Service and president of chemi-			
Pampa, Tex. plant switches from natural	-		-	cess will be tested in West Germany . N -Correction N	Mar Mar	7	35 37	cals group: he finds the living easy and the job a challenge	May	30	68
gas, but burning coal is not yet eco- nomic	Nov		48	Chemical Projects Associates—Arkin dis-	Mar	7	15	HDPE markets: producers, capacity etc.			33
Pentaerythritol prices N Petpac polyethylene terephthalate (PET)	June	27	29	cusses naphtha shortage				(table) LDPE capacity, markets (chart & table).	Sept	7	34
resin capacity to be doubled at Pal- metto plant in Darlington, S.C N	Sept	5	13	stay tight through 1980 N Chemische Werke Huels-Exxon licenses	Nov	7	28	NGL overcharges: DOE files court action	Jan	17	19
Plastics operations restructured: Celanese Special Products Co, and Celanese				Huels technology, may make MTBE and butene-1 N	Aug	29	43	Ross, Hardy E.: Oil and chemicals. Era of peaceful coexistence?—report. Meyer			
Plastics Materials Co. formed	Jan	17	18	MTBE technology	Mar	7	18	Lurie (tables)	Oct	17	70
Forms Celanese Plastics and Special- ties Co R	July	18	27	Polyolefin markets Switch to low-pressure, rhodium-cata-				mercial hydropyrolysis plant N	Dec	5	68
Polyester fiber prices N Jan 10-24, N Feb 14-30, N Apr 4-29, N Dec 5-49, N	Dec	19	69	lyzed oxo process N Chemithon CorpImpact Jet reactor	Apr	18	30	Citizen Soldier-2,4,5-T: Dow Chemical representative denies a charge that the			
Polyester film business including plant at Greer, S.C. may be sold		17	19	makes a pitch for sulfonation applica- tions	Feb	28	49	company engaged in "corporate espio- nage" against a Vietnam veterans"			
American Hoechst to pay \$75 million				Chemonics Industries-Retardants for com-	Mar		40	group to obtain a copy of a medical			
for polyester film business N Sold to American Hoechst N	Apr	18	13 17	bating brush and forest fires				questionnaire related to alleged ex- posure to Agent Orange herbicide	Aug	29	33
Prices for 17 chemicals N Propanol/propionaldehyde portion of	Mar	14	24	etc. (chart & table)	Oct	3	32	Claire Mfg.—Pyrethrin manufacturers that use chlorofluorocarbon propellants may			
oxochemicals complex at Bay City, Tex. completed R	Oct	17	28	(table)	Sept	19	33	be granted relief	May	30	22
Relocation: grappling with the high cost				ACHEMA 1979: design program N	July	4	45	Emmons, Colo. moly project faces up-			
of relocation	Nov		80	Chem Share—ACHEMA 1979: design program	July	4	45	hill fight: Amax hopes to show mining and skiing can coexist	Aug	15	33
operations earnings down N Self-insurance	Nov	28	40	Chesapeake Corp. of Virginia-Camp re-	Mar	14	17	Clorox Co.—Inventories: How some firms keep track of their supplies	May	23	15
VAM prices N Celanese Canada—Gas-based plants in	Jan	10	24	ports to Philadelphia analysts				Kingsford Div.: Cookout market boosts sales of charcoal, startup products		4	33
Alberta (table)	Dec	19	27	Spray	May	8	32 41	Coastal Petroleum-Florida phosphate	July	7	30
Methanol plant at Edmonton operation studied	Oct	10	28	Chevron Chemical-Home and garden weed-killers containing Silvex: sales to				land buyers, International Minerals & Chemical and Mobil Oil, sued	Feb	7	21
Centaur Management Consultants, Inc.— OSHA awards contract for study of				stop	May	16	28	Coastal States Energy Co.—Coal venture with Getty Oil N	Mar	21	17
generic pesticide standard N Center Plains Industries Inc.—Diamond	Aug	22	14	& tables)	Apr	11	56	Coastal States Gas Corp.—Chinese crude oil	Feb	7	19
Shamrock's anhydrous ammonia mar- keting operations purchased R	July	4	22	Socal and Cetus to construct pilot plant for biological conversion of ethylene				Coastal States Petrochemical—Refinery capacity boost at Corpus Christi, Texas			
Central Canada Potash-Potash capacity			-	and propylene N Chevron International Oil Co.—Silicate	Oct		40	planned	Sept		21
(table)	Aug		33	Chevron Research CoLandfarming to	Mar	7	37	Cobafi-Brazil's Camacari complex (table). Codelco-Chile's copper plans brighten			27
Soy protein market	Mar	18	36 38	dispose of oily wastes from refineries Chevron U.S.A. Inc.—California air rules:	Dec	5	68	outlook for treatment chemicals Colgate-Palmolive—Helena Rubinstein in-	Dec	12	59
Century Fiberglass—Steel, plastics bid for storage tank sales	Sept	19	52	San Francisco Bay area companies take	h.t.	4	19	terests in Japan to be sold to KAO Soap	Apr	18	21
Cepsa-Ethylene plant at Huelva, Spain approved N	Aug	1	32	their case to court	July Mar	28	21	Soap	Jan	24	44
Ethylene project delayed again Cerac, Inc.—Semiconductors: chemical	Oct	10	22	Santa Barbara offshore oil leases bid China National Technical Import Corp.—	July		19	Collins & Aikman-Wallcoverings market . Colorado Interstate Gas CoIn situ coal		14	44
market (table)	Nov	21	15	Petrochemical plants (4) ordered N Chinese Petroleum Corp.—Can Taiwan do	Jan	10	39	project: three ready to bid	Oct	31	22
Cessco-Pyrethrin manufacturers that use chlorofluorocarbon propellants may be				business as usual?	Jan Sept	12	23 42	Colorquim S.A. de C.V.—Du Pont to drop dyes	June	13	21
granted relief	May	30	22	Chisso CorpExecutives sentenced for		4	23	Columbia Nitrogen Corp.—Ammonia plant builders settle patent dispute	Sept	19	26
ethylene and propylene: agreement with Socal N	Oct	17	40	Polyolefin markets	Apr		39	Columbian Chemicals Co.—Cities Service forms chemicals subsidiary N	Sept		13
DNA development projects	Sept		34	Chiyoda Chemical Engineering and Con- struction Co.—Chinese contract for				Comalco LtdAluminum smelter at			
Microbiological research program aimed at boosting fermentation yields	Aug	8	42	plant at Nanking	Feb	7	19	Gladstone N Apr 18-26	May Feb	9	42 53
Champion International—Lumber com- panies are accelerating their buildup in				chlorine-caustic plant contract	Feb	7	19	Queensland aluminum smelter capacity to be doubled N	Sept	5	69
pulp and paper (charts & table) Champlin Petroleum—Refinery expansion	Aug	1	13	mud business	Feb		26	Combustion Engineering—Contract from Rockwell International for a design of a			
at Wilmington, Calif R	Feb		18 20	Sun Chemical to increase holdings N Chromalloy terminates discussions . R	July	18	13 27	liquid-metal fast-breeder reactor N	Nov	14	51
Refinery projects (table)	Aug	28	20	Sun plans to go after 20% of company's stock	July	25	23	TVA tests new igniter for coal-fired units. Thornton, James F., member of Hercules	June	20	23
Thomas Maurice, president: He learned to be cool under fire	Aug	8	48	Chrysler CorpCPI has big stake in			00	advisory council	Sept	26	13
Chelsea Industries-Price-fixing among makers of plastic refuse bags probed:				Chrysler vote (table)	Dec		23	C-E. Lummus—Acetylene complex for GAF N	Feb	28	13
Chelsea subpoensed R	Feb	14	18	(table)	Sept	19	20	Alaska Petrochemical contract for re- finery and petrochemical complex at		-	
Chem-Glass International—Epoxy formul- ation for windshield repair	Apr	4	45	hicle N Graphite-composite development pro-	July	4	39	Valdez, Alaska		8	22
Chem-Nuclear Systems Inc.—Ion ex- change system will treat radioactive				jects	Mar	7	22	Chinese will train in U.S. CPI plants Contract for Chinese Petroleum's fifth	Sept	5	70
waste at Three Mile Island N Mapco Inc.'s acquisition terms	July	18 28	42 21	Chrysler board member next year	Dec	19	87	ethylene plant N Contract for Exxon plant in Linden,	Sept	12	42
Chem Spec Insurance Ltd.—Captive in- surance companies.			41	Ciba-Geigy Corp.—Brazilian agricultural chemicals market	Oct		32	N.J	Aug	29	27
Chem Systems—Methanol shortages fore- seen by 1990 in Europe, U.S. and	out	3	.,	Chlorobenzilate: EPA orders ben R Diazinon to combat fire ants and other	Aug		27	plant	Aug		22 20
Japan N	June	13	40	insects	May	9	14 21	Moriarty discusses synfuels		10	20
Sherwin tells of methods that can trim the use of aromatics at AIChE meeting	Apr	11	42	Dyestuffs industry: company digs in as	Date:	12	41	single feedstock using the same equip- ment (flowsheet)	Aug	22	38
Study of MTBE's market prospects Chem-trol Pollution Services Corp.—	Apr	11	43	four dye-makers sell out (charts & table)	July		16	plant contract	Sept		23
Firemen testify about 1972 fire at Newco waste-site permit hearing	June	27	27	-Letter	Aug		6	Cominco, LtdPotash capacity (table) Comision Chilens del Cobre-Chile's	Aug	22	33
Chemapec—Ethanol production process, Total Energy Recuperation	Apr		43	maintenance Epoxy-based pavement marking being	Aug	29	52	copper plans brighten outlook for treat-		10	59
Fermentation know-how for gasohol	Oct		45	tested	Sept	19	43	ment chemicals		12	20
Chemed Corp.—Cooling-tower additive, Ty-Ion A-35, kills the bacteria that				image	May	30	66	project in Pekin, III. doomed by cost increases N		3	34

Commonwealth Oil Refining CoBank-				Corco Cyclohexane-Puerto Rico-report.				Davy Powergas-Brazilian methanol plant.	Mar	14	38
ruptcy: Puerto Rican government will				Meyer Lurie (charts & tables) Coronet Packaging—Dura Drum, hexa-	Apr	11	56	Lime-based flue-gas desulfurization sys- tem N	Apr :	25	48
hold talks concerning the \$50 million Corco allegedly owes R	Jan	10	21	gonal corrugated-board drums	Jan	10	29	Day & Zimmerman—Computerdraft see under name			
Corco may okay bid from Arabian	Jan	24	14	Corporate Democracy, IricReflections on the Great Depression, Lewis D.				Daylin, IncGrace advises Daylin of			
Seaoil				Gilbert	Oct	24	49	possible tender offer N Daylin says 'inadequate' to Grace	Jan	10	13
Corco's common stock trading R	Mar		13 28	Corpus Christi Petrochernicals—Ethylene: markets, capacity etc. (chart & table)	Oct	3	32	offer N	Jan	17	13
Corco emerging from Chapter XI on				Corpus Information Services—Law dis- cusses soap and detergent raw materials				Grace makes sweetened counteroffer N Dead Sea Bromine—Israel sells bromine	Jan	31	13
its own?	July		13 26	at Canadian specialties meeting	Oct	31	34	compounds to China N	Oct	31	30
Corco settles claims, has takeover				Cosden Oil & Chemical - Benzene prices, N		11	29	Dead Sea Works — Potash expansion planned N July 25-36	Aug	1	31
offers	Dec		22 29	Prices of styrene, polystyrene, solvents, polybutenes N Feb 7-29, N Feb 14-30				Potash market	Aug	22	34
Puerto Rico-report, Meyer Lurie (charts				N	Mar	7	31	Decorative Industries—Nail polish business Dedert Corp.—Carbon adsorption solvent-	Aug	8	41
& tables)	Apr	11	56	Cotter Corp.,-Uranium to be recovered from tailings at Canon City, Colo.,				recovery system licensed from Lurgi . N	Dec	12	50
Mexico N	Mar	7	33	processing mill N	June	27	31	Degussa Corp.—Air Products-Degussa joint venture lands GM catalyst order	Sept	5	18
Compagnie Generale de Chauffe-Trans Energy Systems French-U.S. joint ven-				Cotton IncADL study indicates rising oil prices will erase polyester's price				Catalysts report, Donald P. Burke Pt II:			
ture will market cogeneration, district				advantage over cotton by 1985	Aug		17	Who's who in catalysts	Apr	4	63
heating systems	Sept	26	32	Du Pont disputes fibers study Under scrutiny of USDA; J. Dukes	Sept	5	18	McQueen (charts & tables)	June	20	47
To supply propylene to unidentified				Wooters is object of direct request	Aug	22	30	Hexagonal corrugated-board drums gain foothold in chemical markets	Jan	10	29
U.S. firm N Compania Minera Autlan S.A. de C.V	June	6	30	for dimissal	Aug	22	30	DeHart, Ernest Mid-CoWaste cleanup			
Airco ferroalloys plant at Mobile, Ala.		40	47	and spending practices N Coty-Resillience, new line of nail pol-	Sept	5	14	Del Laboratories Sally Hansen Division-	May	2	16
bought N Compania Minera el Indio-Gold-silver-	May	16	17	ishes	Aug	8	41	Nail notish husiness	Aug	8	41
copper deposit in Chile R	Apr	4	26	Courtaulds, Ltd,—British CPI braces for Thatcher's impact. Tim Keeley (charts) .	Oct	24	32	Delphi Marketing Services-Giragosian discusses food additives at CMRA			
Cia. Petroquimica de Camacari-Brazil's Camacari complex (table)	May	23	27	50-50 joint venture to make and market	Oct	24	34	meeting	Feb	21	40
Cia. Quimica do Reconcavo-Brazil's			07	spunwoven fashion fabrics R Hogg, Christopher A., chief executive	June	13	42	DeMert & Dougherty—Car-wash products group	May	9	36
Competa Ltd,—ACHEMA 1979: com-	May	23	27	officer and chairman elect: Ex-para-				Denison Mines(U.S.) Inc. Uranium cartel		ae.	20
puter-aided design programs	July	4	45	trooper jumps into top spot	Oct	24	52	Danison Mines Ltd.—Reserve moves to	July	25	26
ComputerAided Design Center—ACHEMA	Feb	14	37	comparisons are giving rayon a new				merge with wholly-owned U.S. sub-			
1979: design programs	July	4	45	image (charts)	June		27 42	sidiary	Aug	25	13 26
Connaught Laboratories—Insulin-produc- ing living cells are encapsulated for the				Coyne Chemical Co.—Bush, J.F. Jr. says	Nov	20	42	Denka Chemical Corp Maleic acid			28
first time N	Apr	4	37	Coyne seeks a slot in gas-plant con- struction	July	25	35	prices N Maleic anhydride prices N	Mar	3	40
Live-cell inplants: encapsulated pancreas cells may help in treating diabetes	Apr	25	53	Crawford & Russell—Acquisition by John	July	20	30	Denki Kagaku Kogyo-Sales and earnings:			
Conoco Chemicals-Burns, John D., senior				Brown Ltd N Creative Recreations, IncWaterslides	Mar	7	35 42	first-half 79	Nov	28	42
vice-president: Conoco's Burns uses the team approach	Dec	12	72	Croda, Inc.—Promoting a new technology	Aug	22	42	Chemical R	July	25	24
Drag-reducing additive may get more oil	June	27	28	 the creation of anhydrous cosmetics for its esters, dubbed Syncrowaxes 	Sept	10	55	Deten-Brazil's Camacari complex (table). Deutsche Shell A.GHydrocarbon sol-	May	23	27
out of Alaska pipeline Ethylene: markets, capacity etc. (chart	June			Crompton & Knowles CorpDu Pont's				vent plant at Hamburg refinery modern-		10	21
& table) McCleskey, Jerry: Oil and chemicals.	Oct	3	32	dyes technology purchased	Dec	12	21	ization	Apr	18	21
Era of peaceful coexistence?—report.				and consolidate its dyestuff quality-				ket	July	25	42
Meyer Lurie (tables)	Oct Sept		70 46	assurance organization R Dyestuffs industry: company digs in as	Jan	10	45	Dexter Corp.—Loomis: bullish on second half.	Aug	8	19
Conoco Coal Development Co.—Gasifica-	зері	20	40	four dye-makers sell out (charts &				Loomis on Senate Bill 600	May	16	38
tion project in Ohio gets DOF go-		7	25	table)	July	1	16	Diamond Shamrock—ACHEMA 1979: chlorine-cell technology	July	4	45
ahead	Feb		35 35	Crown Central Petroleum-Capital spend-				Anhydrous ammonia marketing opera- tions sold to Center Plains Industries			
Conradty GmbH—Grelcon joint-venture firm will make metal anodes N			34	ing: Morris reports to N.Y. analysts Catalytic reformer onstream at Houston	Nov	7	17	Inc.,	July	4	22
Conservation Services-Texas waste-dis-	Mar		34	refinery	Dec	5	43	Bastogi Irbs S.P.A., interest to be acquired R	May	16	28
posal firms probed by Congress Consolidated Aluminum—Aluminum mar-	May	23	18	tentative contract agreement R	Feb	28	24	Chlorine-caustic outlook (charts & table)	Mar	14	30
kets (charts & table)	Jan	31	29	Papermill expansion at Wauna, Ore N Takeover bid may be on the horizon . N	Nov	21	13	Cleveland CPI firms given little say as city's problems mount	Jan	31	33
TVA rate hike protested	Feb	28	23	Cutter Laboratories—Insect repellent mar-	May	10	17	Corporate haeadquarters moving to			
trate know-how seeks new job N	Jan	31	36	ket	July	4	34	Dallas	June	6	21 37
Consolidated Thermoplastics-El Paso to		- 00	00	icals expansion	Nov	14	27	Defoamer prices N	May	2	49
buy Dart's 50% share	June		22 28	_				Falcon Seaboard Co. acquisition pro- tested by TVA N	Jan	3	13
LDPE film prices	Jan	31	24	D				Director's quitting doesn't defer voters		28	13
tracts (table)	Jan	17	20					of Diamond Shamrock N Harte & Co. to be sold to Dynamit		20	
Consultex S.A.—Personal-care products market in Switzerland	Jan	24	44	D.A. Shale, Inc.—Oil-shale leases: Su- preme Court to review decision rejecting				Nobel of America N Inventories: How some firms keep		14	17
Consumers Power-Dow Chemical's Mid-	- Garr		**	Interior effort to invalidate Western oil-				track of their supplies		23	15
land, Mich. nuclear plant studied for changes	May	2	18	shale leases	Oct	10	26	Licenses Continuous Curve Contact Lenses to use a modification of its			
Midland nuclear plant completion				use chlorofluorocarbon propellants may				membrane technology for coating soft	t		
delayed	July	23	22	be granted relief R DDS Engineers—Feasibility study for	May	30	22	Polyvinyl chloride dispersion resin plant	. Oct	3	38
Consumer Response CorpDetergent				Egyptian inorganic chemicals complex N	Aug		29	in Delaware City, Del R	May	9	21
packaging hit in consumer poll as tough- est packages to open	Oct	24	51	DSM-Lowlands CPI tries for new highs MTBE plant in the Netherlands N	July	11	34 69	PVC joint-venture plant in Alberta Canada to be onsteam late this year N		10	13
Continental Group—Container firms settle suit for \$298.1 million			40	Daicel Chemical-Sales and profits up			••	PVC plants meeting EPA standards are	, 001		10
Hatfield on Senate Bill 600	May	16	38	Sharply (table)	NOV	21	33	Refinery projects (table)	. Mar		36 20
Continental Gummi Werke AG-Uniroyal tire plants in Europe to be bought N			17	in Polychrome Corp	June	e 6	16	Sales and earnings second quarter '79	:	, 20	20
Plants purchased	Aug	25	17	Foreign-owned firms looking at U.S. image	May	30	66	Some recession signs after strong quarter	. July	18	26
Continental Oil-OSHA cites safety viola-				Rhone-Poulenc sues to block opposing bid for Polychrome Corp	Mar	7	19	Self-insurance	. Oct		40
tions at Commerce City, Colo, refinery in investigation of Oct. 3, 1978 ex-				Dainippon raises bid; Rhone-Poulenc		,		Shell Chemical's animal-health business bought	Apr	25	17
plosion R	Jan		17	withdraws offer for polychrome N Sales and earnings: First-half '79 N	Mar		13 42	Surface active agent prices	i Feb	21	30
Refinery projects (table)	Aug	29	20	Damon Corp.—Encapsulation research	Apr		53	2,4,5-T suit filed	Feb.		18 18
tact lenses will use modification of				Danker and Wohlk-Materials for soft contact lenses	Oct	3	38	VCM capacity at La Porte, Tex. to be	8		
Diamond Shamrock membrane technol- ogy for coating soft lenses	Oct	3	38	Dart Industries-Battery business (chart				Diamond Shamrock-Alberta Gas Ltd	-		13
Control Data CorpSoviet MHD technol-				& table)	Jan	10	14	Gas-based plants in Alberta (table) Dixieline Lumber Co.—Acquisition by	. Dec	19	27
ogy to be marketed in U.S N Control Instruments Corp.—Flammable-		: 19	70	Who's who in catalysts	Apr	4	63	Weverhaeuser	d .hun	e 27	17
gas detector, thermal sensing device,			26	Components group of P.R. Mallory and Co. to be sold to Emhart N		e 13	13	Doan Associates—Doan, at Midland meet ing: R&D leading indicators tilt down	-		
looking for work in chemical plants Conzinc Rio Tinto of Australia Ltd		8	36	El Paso to buy Dart's 50% share in				ward	. Oct	31	29
Takeover offer for the Australian				Rexene Polyolefins and Consolidated Thermoplastics	Jun	e 20	22	Doehler Australia—Utah Mining Australia to buy NL Industries' interest N	8		13
mining group, GH South Ltd N Uranium cartel suit	Oct		31 26	Acquisition complete	Sep	t 12	28	Domtar Chemicals Group-Bellefonte, Pa.			
Cooper Laboratories-Collaboration with				Data Resources—Benzene prices	. Aug			lime plant expansion F Lime makers	. Apr		24 32
Schering AG planned N Materials for soft contact lenses	Jun	e 20	17 38	Davy International LtdACHEMA 1979.	Jul	4	43	Dow Chemical—ABS plastic prices N	4		
Copene-Brazil's Camacari complex (table)	Oct	23	28	Iranian fertilizer contracts terminated .N Rhodium-catalyzed oxo process N	Ap	16	30	Oct 17-54	N Dec		32 23
Copenor – Brazil's Camacari complex (table)	Man	y 23	27	Davy McKee-ACHEMA 1979	. Jul			Amines: prices	V Dec	12	
Corco Aromatics-Puerto Rico-report,			-	methanol - Pittsburgh conference	3			from its Sarnia, Ont., facility for use	8		
Meyer Lurie (charts & tables)	Api	r 11	56	(table)		9 8	34	at its Midland, Mich., plant	. May	y 23	21

Aspirin may have preventive value against heart attacks	Oct	3	52
Jr.: Oil and chemicals, Era of peace- ful coexistence?—report. Meyer Lurie	Oct	17	70
Bisphenol A capacity (table) Bohl talks of designing for maximum	Dec	5	50
emission control	Jan	31	40
Bromine chloride plant planned R California asked to refund zoning fees	Oct	24	24
for aborted petrochemical project California county votes to limit phenoxy herbicides use	Apr	13	18
China's door is open but it takes time to get in	Jan	24	32
Chlor-alkali product prices	Sept Mar	12 14	20 30
on carcinogens N Contract for crude oil from Mexico's	May	2	14
Pemex N COWPS grants price exemptions Dioxins are natural products of all com-	Mar June	28 20	17
bustion: researchers dispute claims Dioxin findings around Midland, Mich.	Sept	19	25
plant criticized by EPA	Feb	21	25 43
electrolytic route to titanium sponge N EPA did not exceed its authority by	way	10	43
asking Dow to file health, safety and other studies rules Philadelphia Court. EPA exceeded authority in dropping methyl chloroform and methylene chloride from an exempt list suit	Sept	26	21
charges	Apr Sept	4 26	25 46
Ethylene: markets, capacity etc. (chart & table). Ethylene derivative prices	Oct Mar	3	32 32
Federal Reserve Board's actions to tighten credit: CPI has mixed feelings . Fluor Mining & Metals to study surface	Oct	17	22
mining of lignite deposits R Forecasting: executives remain wary of	Feb	14	18
Garlon 3-A herbicide said to be partial	June	20	39
replacement for 2,4,5-T N Gas-based plants in Alberta (table) Heat-transfer fluids	June Dec Nov	19	27 66
HDPE markets: producers, capacity etc. (table)	Sept	19	33 38
(table). Hoerger on EPA's TSCA rules Inspects buildings with mortar additive Sarabond.	Nov	28	22
Inventories: How some firms keep track of their supplies	May	23	15 32
LDPE capacity, markets (chart & table). Lundeen, Robert W., executive v-p: Former weatherman is still doing	Nov	7	34
forecasting	June	13	52
Magnesium metallurgical granules plant	July	11	18
planned	June	27	27 33
There wasn't room at the top for two .	Feb	21	29
sites Michigan ruling would extend deadline for emissions control from Midland coal-fired plants R	Dec	19	24
Midland Conference seeks way to bridge	Jan	3	21
industry/academic gap N Midland meeting aim: tilting R&D upward	Oct	24	38
Midland nuclear plant studied for changes	May	2	18
Oil-import breaks sought by chemical majors.	Nov		24
OPEC price hike effects	Oct	31	17
Phenol plant in Europe will be "of world- scale capacity."	Nov	28	17
Phenol prices N Feb 14-30, N Mar 21-32 N Pittsburg, Calif., plant explosion kills two, injures 101	Oct	3	37
Pollution control controversy: Dow and	Jun	e 6	21
EPA argue over controls at Midland plant	Oct	31	
violation	Oct	17	22
mediate-density polyethylen resins . N Polyethylene: HDPE prices N Polyethylene film prices N	Oct Feb July	7	13 30 34
Polyethylene's new pitch: properties, not process. The line that differentiates low-density from high-density poly- ethylene resins is becoming more			
piurred	Nov		50
Polyolefin market outlook Polystryrene prices N Feb 14-30, N May 30-24, N June 13-36 N	Jun	e 13	37
Product responsibility programs Products from crude-processing un't to	July	4	53
Rail-car detention-time charges to be increased N	July		13
increased	Oct	24	49

R&D contacts with Michigan State Univ	Feb	21	38
SCM pays for PCR stock		28	24
sults	Jan June	17 20	18 32
Semiconductors: chemical market (table)	Nov	21	15
Solar power may be used to generate steam at Dalton, Ga. plant N Jan 17-28		_	
South Africa policy: Dow at odds with	Feb	7	37
Michigan State	Jan	17	34
tributions	Feb Mar	7 28	27
Spanish CPI faces production cutbacks			
to help reduce pollution	Oct	10	41
Styrene butadiene latex and polyvinyl	Aug	29	52
acetate emulsion prices N Styrofoem insulation lawsuit: R. Boyer	Apr	18	23
of Pevely, Mo. names Dow in \$1.85- million suit. Thermal energy "storage battery" sys-	Aug	8	19
			-
half. 2,4,5-T: Class action suit filed over herbicide exposure on behalf of	May	16	48
herbicide exposure on behalf of			
Vietrialii veteraris and others	Jan Feb	17 14	21 18
Another suit filled H. More suits H. More suits A.5-T: Dow Chemical representative denies a charge that the company engaged in "corporate espionage" against a Vietnam veterans' group to obtain a copy of a medical questionaire related to alleged exposure to Acent Oranoe herbicide	Feb	28	18
denies a charge that the company			
against a Vietnam veterans' group to			
naire related to alleged exposure to		20	00
2,4,5-T: Dow makes its case for 2,4,5-T	Aug		23
at American Farm Bureau conference . 2,4,5-T: EPA orders emergency suspen-	June	13	22
sion Judge lets ban stand EPA opens hearings on emergency	Mar Mar	7	21
EPA opens hearings on emergency			25
Dow asks EPA to halt hearings on emergency suspension N	Apr		14
	May Jan	24	35
Williams comments on the recession	Sept Sept	26	46 16
Xanthate-based flotation agents: world- wide sales to be discontinued R	Sept	26	69
Dow Chemical Europe-Drusenheim, France, complex to produce "Saranex	*-6-		
co-extruded multilayer barrier films" R	Aug	15	24
Dow Chemical Iberica-Ethylene plant at	Mar		
Huelva approved N Ethylene project delayed again	Aug	10	32 22
Dow Chemical International—Colombia shipping rates contested	Feb	7	22
shipping rates contested	July	11	34
Dow Chemical of Canada Ltd -Canada's	Apr	11	49
CPI (chart & tables). Canada may not be willing to export unlimited oil and gas unless U.S. opens	right		10
the petrochemical market to Canada	Oct	10	18
Chlorine-caustic soda plant in Sarnia will supply the feedstock to Catalytic			
Enterprises Ltd. liquid hydrogen plant	May	30	22
Chlorine danger forces evacuation after derailment at Mississauga, Ont	Nov	21	20
derailment at Mississauga, Ont	Oct	17	20
Dow Chemical U.K. Ltd.—Huggins: over- regulation will 'slow us down and be	-		
very costly.'	Oct	24	36
plying with government regulations			
total \$268 million in 1977 R Ferro Corp. to acquire color-concentrate	Feb	14	18
business N Dow Corning Corp.—British government approves a \$40.7-million subsidy for	June	27	17
cone products plant N	Sept		17
cone products plant N Hayes discusses inventories	Oct	3	38
burn wood readied N Semiconductors:chemical market (table).	Oct	10	42
			15
Shin-Etsu Handotai shares to be sold. N Silicone coating for plastic glazing Silicone products prices N Silicone rubber prices N	Oct	19	20 54
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Fiber Industries Inc.—Petpac polyethylene terephthalate (PET) resin capacity to be				shampoo	Feb	7	32	Microtaggants help trace suspect in Baltimore bombing	July	11	41
doubled at Palmetto plant in Darlington, S.C N	Sept	5	13	Foxboro-Microprocessor-based systems	Jan	10	32	PCBs: Monsanto, GE to appear at Congressional hearings on PCBs N	Oct	10	14
Polyester expansion	Sept		17	for distributed control called spectrum.N Miran-801 unit		25 14	48	Silicone sealants feature paintability, low odor N	Jan	31	36
pute: Fike agrees to settle with OSHA	Mari	10	27	Systems for control instrumentation	May	2	55	Semiconductors: chemical market (table)	Nov		15
for \$100		16	27	Freeport Indonesia—Copper project Freeport Minerals Co.—Diversification	May	23	17	Test of superconducting generator com- ponent is called successful N	Non	14	51
TSCA's impact	May	2	58	program: company now holds a "full house" of profitable businesses	May	23	17	The General Electric Co. LtdFisher controls Corp. of Delaware specializing			
Pt II: Who's who in catalysts Finbarilla S.p.AGrace's interest in	Apr	4	63	Phosphate-phosphoric acid markets	Aug		26	in process controls and values R General Foods Corp.—Stovetop Stuffing:	Mar	7	24
Barilla S.p.A. purchased N	Aug	8	13	(table)				Potato Board ad sparks chemical-	-		
Fingerhut Corp.—American Can completes acquisition N	Jan	10	13	N Aug 15-35 N Sulfur sales	Nov		18	additive flap	Sep	t 5	21
Firestone Tire and Rubber-Assessed \$10,000 in criminal fines for false in-				Uranium oxide recovery operation plan- ned near Donaldsonville, La N			17	electronic businesses to be purchased R General Motors—Air Products-Degussa	Feb	7	22
come tax returns it admitted filing in 1972 and 1973	Aug	8	18	Uranium shipment from Louisiana phos- phoric acid uranium-recovery opera-				joint venture lands GM catalyst order	Sep	1 5	18
Borg-Warner merger plans stalled N	Mar	7	13	tion	Jan	31	21	Automotive emission-control catalysts	Man	16	44
Merger plans restart N Merger off	May	2	17 19	Freeport Oil Co.—Offshore drilling in Baltimore Carryon	May	23	17	CPI will fuel Detroit's efficiency drive (table)	Sep	t 19	20
COWPS approves contract with URW Labor contracts: countdown to rubber			25	Freeport Sulphur Co.—Sulfur mine in Louisiana planned N	Oct	3	13	Particulate-control system N Researcher Agnew thinks coal is hope	Oct	24	38
bargaining	Feb	14	33	Sulfur prices N	May		30	for fuel for autos	Jun	e 20	23

Court Figure Court Cou													
General Park Uniforce in management and provided	Zinc-nickel oxide (Zn/NiO ₂) battery:	0	,	10	Gould Inc.—Battery business (chart & table)	Jan	10	14	Gruy Federal, IncGeothermal well for	Feb	7	36	
Green Mile	General Public Utilities-Ion exchange	Oct	3	10	Gowan CoEPA bans most remaining	Nov			Gualtney CoNitrite-free bacon test-				
Hard Cally, The March September products product products and products are products of the products of the products and products are products of the products and products are products are products and products are products are products and products are products and products are products are products and products are products are products and products are products are products and products are products and products are products and products are products and products are products are products and products are products and products are products and products are products are products are products are products are products and products are products are products are products and products are products are products and products are products a	Three Mile Island N	July	18	42	Grace, W.R. & CoAgricultural Chemi-	1101			Gulf + Western Industries-Auto batteries	IVIGI	14	1-4	
Product of the Chance of the	executive indicted on kickback charges				Harold Culp: This fertilizer exec works				atilities N	Nov	28	34	
Problement was with a company of the problement and the proposed properties of the	by grand jury				Ammonia producers protest imports	Oct	17		R	Feb	7	28	
March Marc	RKO General see under name				Froducers ready ITC positions				Sherwin-Williams and Uniroyal stock				
Section Control of the Control o	Wallcoverings market		14		U.S. ammonia firms carry complaint		5		says James Parent	Mar	21	45	
Control processed processed processed (appeal of the control processed (appeal o	nology studies	Sept	26	34	Berman Bucksin, leather-goods retailer,				Williams	Apr	29	49	
Contractions from the contraction of the contractio	Georgia Marble—Pigment-grade calcium carbonate for epoxy-based pavement				China's door is open but it takes time		-		burgh conference	Aug	8	35	
April 1 Control 1 Co	markingN	Sept	19	43	Construction Products division intro-	Jan	24	32	tel suit	July	25	26	
Content Cont	Control projects (4) worth \$200 million	May	9	13		Aug	29	52	Gulf Oil Canada-Montreal refinery dam-	Feb	21	26	
Tender clared prevents	okayed N	May	9	13					Petromont Inc. formed N	Sept	5	69	
Sum	on eight capital projects N	Aug	8	13	report. Meyer Lurie (tables)	Oct	17	70	in world ethylene-products markets N	Nov	14	76	
December 1. December 2. Dece	Chilean ethylene will be sold in United States	Aug	22	32	prevent bridge corrosion N	July	4	39	process that can make ethylene from	0	04	20	
Davider Chaminal fast from some designer implicated Lamber and Section 1 (1) 1.5	Chlorine-caustic outlook (charts & table)	Mar	14		Donald P. Burke Pt II: Who's who in				Gulf Oil Chemicals-Alpha-olefins (NAO)				
Lumber component an accelerating that hashed Lamber component and accelera	Ethanol made from wood sugar shipped				Davision Chemical Div. planning cat-		4	63		Nov	28	17	
Aug 1 2 2 2 3 2 2 3 3 3 3	Lumber companies are accelerating their	Julio		.,	alysts regeneration plant	Feb	21	53	prospects	Jan	24	14	
## Seption of the support Seption Seption Seption Carls Bay, Md. Seption Carls Bay, Md. Seption Sept	table)	Aug	1	13	low-density alumina spheres for auto-				& table)				
Gene Con-Percenter grots for more Apr 2 Content Apr 2 Co	plex to be upped N				plant in Curtis Bay, Md N	May	9	29	Expandable polystyrene facility for				
Construction Cons	Polyvinyl chloride expansion	Sept	5	17	offer N	Jan	10	13	Marietta: O. plant				
Coal worther with Coales States Forey May 22 17 Methanical pient at its Disease City, Dut., rifloring studied. May 23 22 Methanical pient at its Disease City, Dut., rifloring studied. May 26 22 Methanical pient at its Disease City, Dut., rifloring studied. May 27 22 Methanical pient at its Disease City, Dut., rifloring studied. May 28 22 Methanical pient at the Studies Studies of Studies City, Dut., rifloring studied. May 29 22 Methanical pient at the Studies Studies Studies Studies Studies Studies City, Dut., rifloring studies City, Dut., rifloring studies Studi	racquets	Aug	22		offer N				Gaides on polypropylene	Oct			
Description	Coal venture with Coastal States Energy			-		Jan	31	13	Inventories: How some firms keep track of their supplies.	May	23	15	
Sept 10 22 PAD unit in Trans will probable be boild continued and the septiment of th	Methanol plant at its Delaware City,				pansions R	July	11	22	Polyalphaolefins plant at Cedar Bayou,			13	
Second contenting at Consider special class meeting. Grant State G	Uranium cartel suit				at Henderson, Ky				PAO unit in Texas will probably be built	-			
Continued Cont	aerosol marketing at Canadian special-				Grace chairman says the U.S. is just	NOV	1**	9	facilities from Pearsall Chamical are		47		
Apr 1 20 20 20 20 20 20 20	ties meeting	Oct	31	34	that he expects will last six months. R		30		Polypropylene markets: capacity (table)				
Complete With a side of Interest: In Surface Agra Apr Princing 152 A	to be offered in Eraser Mate Pen	Jan	31	43		Aug	1	26	Polystyrene: mothballed expandable polystyrene (EPS) plant at Channel-				
Proughstephosphoric ordinal count begins to feet settlinnow, College C	Icmesa for dioxin disaster	Feb	14	13	complete with sale of interest in	Aug	8	13		Dec	5	17	
College and Flatins-Paint war Annual Paint war	French criminal court begins to hear				Phosphate-phosphoric acid markets		1		swim	Aug	29	27	
Clock Morio Development - Chimical July 1 20 Restructuring: concept of reflocation No. 14 80 Stylens prices No. 14 80 Stylens pri	Glidden Coatings and Resins—Paint war-	Oct	31		.Phsophate rock joint venture N		3		process that can make ethylene from	0-4	24	20	
westes to be burned at sea. July 1 20 Restructuring: com_eavy considering informations at the season of the companies of the companies. Companies of the companies of the companies of the companies of the companies. April 1 4 into anomalor of positive process of the companies of the companies. April 1 4 into anomalor of positive process of the companies. April 1 4 into anomalor of positive process of the companies. April 1 4 into anomalor of positive process of the companies. April 1 4 into anomalor of the companies. April 1 5 into anomalor of the companies of the companies of the companies of the companies of t	Global Marine Development-Chemical	Aug	1	36	Relocation: grappling with the high cost of relocation	Nov	14	80	Xylene prices N				
Dools by burning at set (table)	wastes to be burned at sea	July	11	20	Restructuring: conspany considering				Gulf Oil Corp.—Bartley, Richard M. and Charles E. O'Connell: Oil and chemicals				
Labe ded Datteries featured in GE Labe ded Datteries featured	posal by burning at sea (table)	Apr	11	44	into a number of publicly held com-	Oct	10	18	Era of peaceful co-existence?-report.	Oct	17	70	
ETV-1 electric whicked	table)	Jan	10	14	Rimmer, Jack, head of Technical Pro-	000	10	10	Cancer among refinery workers at Port				
under construction N June 30 55	ETV-1 electric vehicle N	July	4	39	group bigger	Jan	10	52	Charcoal startup products: Gulf Lite				
Goodrick BF.—Chemical Group discontinuing sales of Telicar thermoplastic Goodrick state and the Children of th	Good Hope Refining—MTBE capacity under construction N	May	30	55	struction, labor and equipment costs				Coal conversion: McAfee at Pittsburgh	July	4	33	
Contraining sales of Telicus thermoplastic claims. Dec. 5 43	-Correction			23	are hobbling innovation				COWPS grants price exemptions				
Chlorin-caustic outlook (charta & table) COWTS, Goodrich agree on compliance Etryllens: markets, capacity etc. (charta Etryllens: markets, capacity etc. (charta Cost 3	continuing sales of Telcar thermoplastic	Dec	5	43	Urethane foams groomed for prison			42	General Crude's oil and gas operations				
Ethylene: markets, capacity etc. (chart & table). Oct 3 32 Superaborbents plant Apr 18 38 Mobil offer makes bidding for General Could Oil go higher N Mar 21 17 Mobil offer makes bidding for General Could Oil go higher N Mar 21 17 Mobil offer makes bidding for General Could Oil go higher N Mar 21 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 17 Mobil offer makes bidding for General Could Oil go higher N Mar 28 18 Mobil offer makes bidding for General Could Oil oil higher N Mar 28 18 Mobil offer makes bidding for General Could Oil oil higher N Mar 28 18 Mobil offer makes bidding for General Could Oil oil higher N Mar 28 18 Mobil offer makes bidding for General Could Oil oil higher N Ma	Chlorine-caustic outlook (charts & table)	Mar	14	30	Will Grace become a company divided? .	Dec	12	42	Tenneco and Southland Royalty make				
Superaborhents plant 1 Coeff 1 Superaborhents plant 2 Superaborhents	Ethylene: markets, capacity etc. (chart				market				may bid	Mar	21	17	
Costly, wasteful, complex—Other views. Goodyear FV (Point and Plaguamins, L. 10 to Bought	Farbstein, Stanley B.: DOE's fuel rules-				Superabsorbents plant	July	18	40	Crude Oil go higher N	Mar	28	17	
La to be bought in will buy out foreign petrochemical interests. May 16 35 Grayton Associates—Marketing seminar traces links between sensets and sex. Sept 12 63 Graet Balls of Fire—Charcoal starter market. July 4 34 Labor contracts: coundown to rubber bargaining Song to replace Thomas as Goodrich forbirman. June 27 24 Pollution-control business. Nov 7 52 Graet Lakes Carbon—Greloon joint-venture firm will make make a famings up. Pure sing penion plans unveiled N Aug 24 Pure sing penion plans unveiled N Aug 24 Pure sing penion plans unveiled N Aug 25 Creat Lakes Chemical—Sales and earnings up. Pure sing penion plans unveiled N Aug 25 Creat Balls of Fire—Charcoal starter market. Show 7 52 Graet Lakes Chemical—Sales and earnings up. Pure sing penion plans unveiled N Aug 25 Creat Balls of Fire—Charcoal starter market. Show 7 52 Graet Lakes Chemical—Sales and earnings up. Pure sing penion plans unveiled N Aug 25 Creat Balls of Fire—Charcoal starter market. Show 7 54 Graet Lakes Chemical—Sales and earnings up. Pure sing penion plans unveiled N Aug 25 Creat Balls of Fire—Charcoal starter market. Show 7 54 Graet Lakes Chemical—Sales and earnings up. Dire markets accompany leads of the starting of the	Goodyear's PVC plant at Plaquemine,	Feb	7	5	Europe process to make hydrogen by	Oct	31	40	4-17 R	July	18	27	
Interests. Jointly owned sales company with Yokohama Rubber May Jointly owned sales May Jointly owned sales company the charged July 4 34 July 13 24 July 13 25 June 13 24 J	La. to be bought N	Feb	14	9	Grayson Associates-Marketing seminar				HDPE markets: producers, capacity etc.			33	
Yokohama Rubber	interests N	May	16	35	Great Balls of Fire-Charcoal starter				In situ coal project: three ready to				
Dargaining Ong to replace Thomas as Goodrich Chairman June 27 24 Great Lakes Chrobon-Greloon joint-venture firm will make metal anodes. Nov 7 52 Great Lakes Chromost Constitution Project on Service Constitution Project Chair & tables) Sept 5 17 Gress Northern Paper Co.—Waste-burning outs fuel consumption Nov 7 41 Section Project Trist commercial coal-gasification project in Great Salt Lakes Minerals—Potats capacity (table) Sept 5 17 Gress Northern Paper Co.—Waste-burning outs fuel consumption Nov 7 41 Section Project Trist commercial coal-gasification project in the U.S. approved by FERC in Beulah, N.D Mov 21 46 Section in situ gasification or stems of the Coodyear Acceptance and coal-gasification project in Green Bay Peckaging inc.—Cogeneration project in Green Bay Wish, hits snags Aug 22 36 Great Salt Lake Minerals—Potats capacity (table) Section in situ gasification of stems of the Coodyear Acceptance — Capturing firm will make metal anodes Now 21 46 Section in situ gasification of coal in stems project moves of the Coodyear Acceptance and coal-gasification of stems of the Coodyear Chemicals—Bottle rasin market will more than double this year Now 22 46 Green Coompanies On the Coompanies	Yokohama Rubber R	June	27	27	Great Canadian Oil Sands-Athabasca oil			-	King appraises Moorhead bill	July	18	21	
Great Lakes Carbon—Greicon joint-ven- chairman. June 27 24 Pollution-control busines. Nov 7 52 Great Lakes Carbon—Greicon joint-ven- property Cexpanishing plans unveiled N Aug 8-13. Sept 5 17 Great Lakes Chemical—Sales and earnings yp. — Was person of the purchase and property carbon projects in the U.S. Aug 29 20 SCR: proposal for demonstration unit submitted. Nov 7 41 Refinery projects (table). Aug 29 20 SCR: proposal for demonstration unit submitted. Nov 11 25 SCR: proposal for demonstration unit submitted. Nov 21 46 Sulf State State State Institute. SCR: proposal for demonstration unit submitted. Nov 21 46 SCR: proposal for demonstration in 1912 1915 SCR: proposal for demonstration in 1912 191	bargaining	Feb	14	33	Heavy-oil recovery				MMT: threatened suits make refiners				
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B-13	Pollution-control business	Nov	7	52	Great Lakes Chemical -Sales and earnings		7	41	Refinery projects (table)	Jan Aug			
Tax charges: company pleads no contest. Jan 24 17 Tire makers face flat sales in the 1900s (chart & tables). May 30 16 Termos stock purchase complete. N. Dune 27 23 Wage-price violation may be charged. Goodyear Acropace — Centrifuges for DOE's uranium enrichment program. N. Dirigibles: Enterprise replaces Mayflower, destroyed in lows windstorm in July. Modoyear Chemicals—Bottle resin market will more than double this year. N. N. Goodyear Chemicals—Bottle resin market will more than double this year. N. N. Goodyear Chemicals—Bottle resin market will more than double this year. N. N. Goodyear Chemicals—Bottle resin market will more than double this year. N. N. Goodyear Tire & Rlubber Co.—Devulcanizing rubber by using microwave energy. N. N. Goodyear Chemicals—Bottle resin market will more than double this year. N. N. D. J. N. Merger announcement: foreign investments in the U.S. Greenstone Assurance—Captivos Gulf States Utilits—Easibility of naking gas from havey-oi	8-13				Great Northern Paper CoWaste-burning		11	25	submitted N	Aug	8	31	
Tire makers face flat sales in the 1990s (chart & tables). May 30 16 Gear Salt Lake Minerals—Potash capacity (table). INW reachers extellement sees retinement in July Goodyear Acrospace — Centrifuges for DCE's uranium enrichment program. N Dirigibles: Enterprise replaces Mayflower, destroyed in lowa windstorm in July Goodyear Chemicals—Bottle resin market will more than double this year. N Goodyear Chemicals—Bottle resin market will more than double this year. N N Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Co.—Devulcanizing robber by using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Goodyear Tire & Riobber Dy using microwave energy. No Harman All Poly Riobber Dy using microwave energy. No Harman Reimere—Rear-Roman market of study to the transport of study. Nov 14 20 N	Tax charges: company pleads no con-				Great Plains Coal Gasification Project-	July	11	40	Texas terminal off Freeport takes a			-	
Tremostock purchase complete	Tire makers face flat sales in the 1980s		-		ject in the U.S. approved by FERC in				Uranium cartel suit				
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Goodyear Aerospace — Centrifuges for DOE's uranium enrichment program. N Aug 22 36 DOE's uranium enrichment program. N Nov 28 46 DOE's uranium enrichment is uranium enrichment program. N Nov 28 46 DOE's uranium enrichment program. N Nov 28 46 DOE's uranium enrichment is uranium enrichment enrichment is uranium enrichment enrichment is uranium enrichment enrichment is uranium enrichment enrichment enrichment is uranium enrichment enric	Wage-price violation may be charged				city (table)	Aug	22	33	steep seams N Gulf Science and Technology –Coal gasifi-	Sept	19	43	
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windstorm in July Nov 28 46 Goodyear Chemicals—Bottle resin market will more than double this year N Goodyear Tire & Rubber Co.—Deutucanizing rubber by using microwave energy N Goodrich to purchase PVC plant at Plaquemine, La. N N Feb 14 9 Labor contracts: countdown to rubber bargaining Feb 14 33 Radial truck-tire capacity boost at Danville, Vs. plant N N Oct 24 13 Tire makers face flat sales in the 1980s (chart & tables) May 30 16 Grow Group—Corporate headquarters' relocation May 30 17 Grow Group—Corporate headquarters' relocation May 30	Dirigibles: Goodyear's Enterprise re-				companies	Oct	3	41	Gulf South Research Institute-NCI bio-	Mar	14	37	
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enizing rubber by using microwave energy. May 23 35 Goodrich to purchase PVC plant at Plaquemining. La. Soodrich to purchase PVC plant at Plaquemining. La. Labor contracts: countdown to rubber burgaining. Feb 14 33 Cowys: Kahn's criticism angers CPI contracts to countdown to rubber burgaining. Radial truck-tire capacity boost at Darville, Va, plant. No Ct 24 13 Sole materials. May 10 65 Grow Chemical-Corporate home is Many Apr 4 31 Emiro-spray system. May 23 33 Emiro-spray system. May 23 33 Tire makers face flat sales in the 1980s (chart & tables). May 30 16 Grow Group-Corporate headquarters' relocation. May 20 17 Purfocat Div. Coatings for bridges. May 10 65 Grow Group-Corporate headquarters' relocation. May 20 153 May 23 33 May 23 33 Grow Group-Corporate headquarters' relocation. May 30 65 HOP CorpSteam technique promises more efficient heavy-oil recovery. N. Haarrann & Reiner-American market for perfume oils, aroma chemicals and flavor substances: new compounding plant at Branchburg, N.J. June 20 42 Method of synthesizing 15-pentadecanolide will be commercialized: new route to musk ingredient. Not 14 49 Method of synthesizing 15-pentadecanolide will be commercialized: new route to musk ingredient. Oct 3 46 Wage-price violation may be charged. July 4 20 May 60 65 Grow Grow Grow Grow May 30 65 Grow Grow Grow Grow May 30 65 Grow Grow Grow A Building. Apr 4 31 Feb 7 28 May 20 33 May 23 35 Grow Group-Corporate headquarters' relocation. Aug 1 37 Method of synthesizing 15-pentadecanolide will be commercialized: new route to musk ingredient. Oct 3 46 Wage-price violation may be charged. June 20 42 Wage-price violation may be charged. June 20 42 Wage-price violation may be charged. June 20 42 Method of synthesizing 15-pentadecanolide will be commercialized: new route to musk ingredient. Oct 3 46	will more than double this year N	Jan	17	35	Grimm, W.T. & CoMerger activity re-	July	18	17	of study	Nov	7	47	
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Plaquemine, La. N Feb 14 9 hattan 3 Yan Am Building N Feb 7 28 HOP Corp.—Steam technique promises COWBS' Kahn's criticism angers CPI bargaining Feb 14 33 executives May 23 33 Haarmann & Reimer—American market for perfuse oils, aroma chemicals and 10 21 Sole materials May 16 41 Grow Group—Corporate headquarters' restructural urethane adhesive Mar 21 39 Furlocast Div. Coatings for bridges Aug 1 37 Menthod market May 20 16 Grumman Aerospace—Dak Ridge awards contracts for bumpy torus fusion de URW sectlement seen near June 27 23 contracts for bumpy torus fusion de Wage-price violation may be charged July 4 20 vices called the ELMÖ Bumpy Torus	Goodrich to purchase PVC plant at	May	23	35	Grow Chemical-Corporate home is Man-				п				
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Danville, Va. plant. N Oct 24 13 Trewax Co. stock to be bought . R Jan 10 21 flavor substances: new compounding plant at Branchburg, N.J	bargaining	Feb	14	33	executives	Apr			Haarmann & Reimer-American market				
Structural urethane adhesive Mar 21 39 location Aug 1 3/ Menthol market Nov 14 49 Tire makers face flat sales in the 1980s (chart & tables) May 30 16 URW settlement seen near June 27 23 contracts for bumpy torus fusion de wide en near June 27 23 contracts for bumpy torus fusion de vices called the ELMO Bumpy Torus Haboneria-Wilson — Sulfonation plant	Danville, Va. plant N	Oct			Trewax Co. stock to be bought R				flavor substances: new compounding		20	42	
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URW settlement seen near. June 27 23 contracts for ourspy toris tusion de- to musk ingredient. Oct 3 46 Wage-price violation may be charged. July 4 20 vices called the ELMO Bumpy Torus Haboneria-Wilson - Sulfonation plant	(chart & tables)	May	30	16	Grumman Aerospace-Oak Ridge awards		29	03	Method of synthesizing 15-pentadecano- lide will be commercialized: new route				
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Liquid Processors, IncAir-pollution per		12	20	Masland C.H. & Sons-Carpet-fibers ma	17-	y 25		tracts (table)	0		
mit for liquid waste incinerator at Valley of the Drums' asked	. Mar	у 9	19	ket (chart)	CS	v 21		butyral plant	E		20
Liquigas—Creditors seek repayment plar as CPI losses exceed \$1 billion (table) .	1			bid for storage tank sales,	. Set	ot 19	52	plents to use Mitsubishi technology ! Methanol unit gets new investors !	R Jun	e 20	28 28
Little, Arthur D. IncEPA premanufac			-	business. Materials Consultants Laboratories Inc.	. Fe	b 14	37	Naphtha price agreeemnt	N May	/ 30	27
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Complex at Bandar Shahpur may soon	Aug	8	25	from big molecules N	Oct	10	42	Product responsibility programs	Sept	5	17 53
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Mitsui Petrochemical IncChinese con-	Jan	17	20	Monsanto CoABS resin prices N Mar	June	13	36	Stroble, Francis A.: Oil and chemicals. Era of peaceful coexistence?-report.			
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FIFRA amendments dismissed by Su-				gainst heart attacks	Oct		52	Monsanto Enviro-Chem-Vanadium ca-			
preme Court	Jan Dec	17	14	Benzene prices N Bionadical research expansion: co-	Mar	21	32	talysts, sulfuric acid plants and mist eliminators	Nov	14	66
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Iron oxide pigment price N Isocyanates prices N	Oct		54 37	crewmen aboard shrimp fishing vessel . Corey on EPA's TSCA rules,	Aug	22 31	37 38	at Montedison's finances N Creditors seek repayment plan as CPI	May	30	28
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General Crude likely N Mobil offer makes bidding for General	Mar	21	17	Hollow-fiber device separates hydrogen from waste-gas streams N		21	46	ruptcyN Italian government supports recovery	Aug	8	25
Crude Oil go higher N	Mar	28	17	Maleic acid prices N	Mar	28	28	plans N		22	35
Mobil's \$800 million bid wins N Apr 4-17 R	July	18	27	Maleic anhydride plant planned R Apr 25-25 R	Aug	29	27	Merger with Snia Viscosa in jeopardy N Montefibre's losses halt merger N	Jan Feb		40 24
Bodcaw Co. acquisition planned N Weyerhaeuser offers \$655 million for	Mar		13	Maleic anhydride prices N Feb 21-30. N	May		49	Montedison to withhold financial aid N	Apr		17
Bodcaw; works out lease-or-buy deal				Nitro, W. Va, workers exposed to dioxin to be tested	Mar	28	23	No progress in bailing out Italian companies N	Dec	5	51
with Mobil	July	11	13	Tests find no excess of deaths from cancer or cardiovascular disease R	Nov	7	25	Monument Solar Corp.—Solar power steam for Southern Union refinery	Feb	7	38
stockholders,	July	18	17	North American dialkyl phthalate plas-				Moore & Munger, Inc.—Snyder assesses			-
Coastal sues over Florida phosphate land buys	Feb	7	21	ticizers expansion R Nylon: Company withdrawing from	Sep	t 12	28	petroleum-wax picture	Nov	14	52
COWPS grants price exemptions		20	22	European nylon business R	July	4	22	control plan welcomed	Apr	18	16
Mersin oil refinery shares sold to the Turkish Petroleum Enterprise	Mar	28	39	Nylon prices	May	16	30	Morgan, Lewis & Brockius—Quarles at the NPRA meeting		18	31
Methanol-to-gasoline process to get \$28	91	21	14	majorsOrthochlorophenol spill from derailed	. Nov	7	24	Morgensen, Frederick AB-Morgensen			
million from U.S., West Germany N New Zealand picks Mobil process to	1400	21	14	train in Sturgeon, Mo.: Dioxin is				Sizer screening equipment will be made in the U.S. by a joint venture N	Oct	17	40
make gasoline from gas-derived metha- nol N	Nov	28	34	found in cleanup workers' blood Suits boost claims for dioxin-spill	. May	23	22	Morhange—Morhange talcum powder case (1972): French criminal court begins to			
NGL overcharges: DOE files court			-	damage	. July	25	21	hear testimony	Oct	31	22
action	Jan	17	19	Patent protests aimed at Hungarian traders	. Aug	1	18	Morrison-Knudsen Co.—Geothermal plant for Magma Power N	Jan	17	27
refuse bags probed: Chelsea Industries			40	Phenol prices N	Oct	3	37	Morrison Molded Fiber Glass CoGlass-			
subpoensed	Feb		18	Phenolic industrial resins prices N Phenolic resin price raise abandoned . N	Nov		28 28	reinforced isophthalic polyester trestles for waterslides	Aug	22	42
Santa Barbara offshore oil leases bid Talent-theft suit against Superior Oil	July	11	19	Phosphate prices N Phosphorus-based fire retardant Phos-	Nov			Morton Norwich Products-Aspirin may have preventive value against heart			
dropped	June	e 27	24	Chek XAF to combat forest fires	. Mar		40	attacks	Oct		52
in Eastchester, N.Y	Mar	7	22	Phthalic anhydride prices N Plant at Chocolate Bayou, Tex. planned	May	/ 2	49	Du Pont's dyes technology purchased Texize division to buy Shell's No-Pest	Dec	12	21
Tucker, Richard F.: Oil and chemicals.				to produce synthetic methionine feed	1		17	strip insecticide business N	Mar	7	13
Era of peaceful coexistence?-report. Meyer Lurie (tables)	Oct	17	70	additive N Pollution-control business	. No		17 52	Motor Oils Refining Co.—O'Connell at NPRA meeting	Nov	14	52

Motorola—Polycrystalline silicon studies .	July	11	30	Firemen testify at waste-site permit		07	07	Oak Ridge National Laboratory-Awards contracts for bumpy torus fusion de-			
Mt. Newman Ltd.—Australian strikes may curb Japan's steel output N	July	25	36	New York attorney general moves to	June		27	vices called the ELMO Bumpy Torus			
Moyer Chemicals—Small chemical com- panies brace for TSCA's impact	May	2	58	Newco Exploration Co.—Sohio expanding	July		22	(EBT) N Contract to three companies for pilot	Aug	29	43
Mozzi, Bernard (Co.)-Bicycle wheel of	Feb		37	exploration program via acquisition , N Newman-Green-Valves for aerosol cost-	June	13	13	unit that will combine atmospheric fluidized-bed combustion and a gas			
plastic	1.60	21	37	ings	May	23	33	Fusion research center will be set up . N	Sept Feb	5	23
tested for sulfur removal in coal-fired power plant N	Oct	31	40	dent: Carbide said sell Niacet, so he	lan	24	40	Process to recover aluminum and other			-
Murphy Oil—Capital spending: Sweeney reports to N.Y. analysts	Nov	7	17	bought it himself	Jan		48	valuable metals from the fly ash generated by coal combustion N	Oct	31	40
Muskegon Chemicals-Small chemical companies brace for TSCA's impact	May	2	58	to violations of storing toxic wastes . R Nielson, A.C. Co.—Carlson discusses fa-	Apr		21	Thermochemical cycle uses solar collec- tors to produce hydrogen, CO N	Aug	15	38
Companies brace for Foort's impact			-	bricated foods at seminar	Apr	18	38	Occidental Petroleum—Ammonia pro- ducers protest imports from Russia	July	18	24
N				of making guanidine nitrate Nihon Ammonia-Ammonia/urea cut-	July	4	45	Producers ready ITC positions U.S. ammonia firms carry complaint	Aug	29	23
				backs continue	June	20	46	to ITC	Sept	5	17
NL Industries—Baroid Div.: Drilling-mud business	Feb	28	26	Meyer Lurie (charts & tables)	Apr	11	56	market	Oct	10	18
Interests in two Australian companies to be sold to Utah Mining Australia,				Nippon Kasei-Ammonia/urea cutbacks continue	June	20	46	Baeder, Donald Lee, executive v-p: Occidental made him an offer he			
Ltd N Montanari at NP& A meeting: Titanium	Oct	3	13	Nippon Kayaku-Pyrethroid insecticide will be developed in Japan and in				couldn't refuse	June	27	56
dioxide tight	Nov	7	40	Australia	July	25	45	Era of peaceful coexistence?—report. Meyer Lurie (tables)	Oct	17	70
Montanari: Computers helped him to	lector	11	40	process	Oct	31	23	California orders Oxy to halt pollution at Lathrop, Calif., fertilizer and			
Negotiating the sale of its magnesium	July		48	(table)	Jan	17	20	pesticide plant	Apr	4	23
operation in Utah	Dec		43	Nippon Shokubai-Chinese contracts (table)	Jan	17	20	as disclosure of memos implicate		-	-
president and general manager R Plant sales help NL change its emphasis:	Jan	10	21	Nippon Zeon-Sales and earnings: first- half '79 N	Nov	28	42	Oxy in water-pollution coverup Casriel reports to Chicago analysts	June		17
four plants sold to Lead Industries Group, Ltd.; three recycled lead plants				Nissan Chemical—Formosa Plastics signs know-how contracts for Taiwan plants N	May	30	28	Chlor-alkali product prices	Sept May		20 18
sold to Taracorp Inc. of Atlanta Aug	Oct	24	13	Nissho-Iwai Co.—Chinese contracts (table) Iran-Nippon Petrochemical holdings sold		17	20	Fertilizer plant near Dibblee Point,	Feb		24
22-19	Sept	19	5	to National Petroleum Co N	Sept	12	42	Ore, planned	July		21
Sales and earnings—third-quarter Solar power system	Nov Feb	7	22 38	Iran will buy out foreign petrochemical interests N	May	16	35	Hammer confirms company has signed a 10-year agreement with Bulgaria . R	Nov	14	42
Texas International's oilfield businesses purchased N	Jan	3	13	Nitro Nobel Atlas and Nobel form new	July	11	25	Hooker Chemical name may be changed	Nov	14	42
NLT Corp.—Spurns bid by Ashland Oil NST/Engineers—Sulfonation plant pack-	Aug	8	18	Nitrocarbono—Brazil's Camacari complex (table).	May		26	Hooker Chemical see under name Libya agrees to settle differences R	Jan	24	17
age	Feb Feb	28 28	49 53	Noranda-Aluminum markets (charts &		31	29	Mead Corp. takeover bid: How Mead	Mar		32
Nabisco-Soy protein market	Apr	18	38	Copper prices	Mar	28	28	dodged Oxy's 'bearhug'		14	
Nadler & Larimer, Inc.—Larimer discusses psychographics	May	2	51	Uranium cartel suit	July	25	26	named vice-chairman of Occidental Merszei replaces Baird as president of	Apr	25	22
Nalco Chemical—Anti-knock pricing stud- ied by FTC	May	23	19	spill from derailed train in Sturgeon, Mo.: Dioxin is found in cleanup workers'				Oxy Merszei says company hopes to con-	Aug	1	17
Anti-knock gets a bum rap—Viewpoint Boiler-fuel additives	May		5 33	Suits boost claims for dioxin-spill	May	23	22	clude a "positive agreement" with Michigan authorities concerning en-			
Catalysts report. Donald P. Burke Pt II: Who's who in catalysts	Apr	4	64	damage	July	25	21	vironmental efforts R	Oct	17	28
Industrial Bio-Test Laboratories see	Aþi	-	04	Norsk Hydro-Acquires NSM to streng- then fertilizer position N	Sept	19	39	Merszei speech titled "The Golden Age for Petrochemicals"	Oct	17	69
Sales and earnings—third-quarter	Nov		22	Cooperation pact is signed by Kema- Nobel and Norsk Hydro N	June	20	45	Oxy looks to Merszei to revive profits of Hooker Chemical	May	30	18
Nalco France—Aquagil to be purchased .R Narco Scientific—Acquired by Rorer	Apr	4	26	North American Philips—2,4,5-T suit filed	Feb	14	18	Phosphate-phosphoric acid markets (table)	Aug	1	26
Group	Jan	17	22	More suits	Feb		18	Retorts to produce oil shale in situ: pro- ject moves forward		24	24
(charts & table)	Jan	31	29	supply suit against Westinghouse Electric	Oct	3	25	Office of the Future, IncIntegrated lab	OCC	24	2.4
DOE files action for alleged over-		-	47	Corp. settled				and office data systems save researchers time, money (chart)	Oct	10	47
charging for natural gas liquids N European LDPE operations to be sold	June		17	ral gas from Alaskan North Slope R Northern Petrochemical—Blanda director	May	9	21	Ogilvie, Taylor & Associates-Foreign firms' identity problems	May		65
to Exxon Chemical N HDPE markets: producers, capacity etc.	Feb		9	of marketing on polypropylene Ethylene: markets, capacity etc. (chart	Oct	24	29	O'Hara Sanitation—Pennsylvania files crim- inal charges against president for al-	May	-	-
(table)	Sept	19	33	& table) Explosion and fire at LDPE unit in	Oct	3	32	legedly dumping pharmaceutical wastes		4	26
National Gypsum-Phoenix, Ariz., wall- board plant modernization and ex-				Morris, III	Apr	18	18	into a groundwater well R Ohgitani Kogyo Ltd.—Chemically-acti-	Арг	4	20
pansion	Sept	12	28	table)	Nov	7	34	vated hand warmers based on simple iron-power oxidation chemistry from			
duction up	Mar	14	18	Oriented polypropylene film plant planned	Apr	11	29	Japan Oil Base, Inc.—Drilling-mud business	June Feb		40 26
National Petroleum Co.—Iran: Bandar petrochemical complex	Jan	10	31	Plastic packaging plant near Chicago planned	Apr	18	20	Olin Corp.—Army refuses DDT cleanup at	reo	26	20
Iran-Nippon Petrochemical's Japanese interest bought N	Sept	12	42	Polypropylene markets: capacity (table) Te Kolste at N.Y. financial analysts	Oct	24	29	Redstone Arsenal in Huntsville, Ala., blames Olin for leakage	Feb	14	12
National Potash-Potash capacity (table) . National Research Council of Canada-	Aug	22	33	meeting: petrochemicals prosper, fuel outlook brightens	Oct	3	21	EPA may sue Army for refusal to clean up DDT residues	Feb	21	25
Rayner discusses laser oil-spill detection	hune	13	29	Northern Tier Pipeline Co.—Pipeline pro- posed to carry Alaskan crude oil N	June		14	DDT pollution found in Triana, Ala. residents' blood		28	23
system National Research and Development			42	Northwest Alaskan Pipeline CoAlaskan	Julie	0	14	Chlor-alkali product prices	Sept	12	20
Corp.—Pyrethroids	Jan May	17	39	natural gas line proposed: Oilmen have hope for natural gas line	Aug	29	25	Chlorine-caustic outlook (charts & table). Cluster-like silicate esters that withstand			30
National Starch and Chemical—Koehler discusses hair-spray business	May	2	50	Northwest Industries—2,4,5-T: Class ac- tion suit filed over herbicide exposure				COWPS grants price exemptions	June		37 22
Superabsorbents plant in Salisbury, N.C.			40	on behalf of Vietnam veterans and others	Jan	17	21	Ethylene: markets, capacity etc. (chart & table).	Oct	3	32
Unitever acquisitions strengthen spe-				Another suit filed R More suits	Feb Feb	14 28	18	Firearms plant at New Haven, Conn. strikes continues	Oct	17	24
cialty hand	Oct	17	25	Noury Chemical—Organic peroxides prices	-	19	69	Glycol ether prices		7	32 19
Drumming: tighter regulations pro- posed N	Jan	31	24	Novamont-Montedison confirms sale . N	June	6	13	HTH expansion	July	11	13
Neches Butane-MTBE plant planned . N Nederlandse Stikstof Maatschappij-Norsk	May	30	55	Sale to USS Chemicals questioned Novo Biochemical Industries—Enzyme far-	July	11	20	Hydrazine and sulfuric acid prices N Hydrazine plant in Lake Charles, La.,			
Hydro acquires NSM to strengthen fertilizer position N	Sept	19	39	mentation plant in Franklinton N.C., R Novo Laboratories-Sales and earnings	Mar	28	40	triples the company's capacity (chart) . Irani, Ray R., Chemicals Group presi-		12	34
Negev Phosphates—Phosphate rock ex- pansion N	May		39	78	Mar	28	40	dent: He took the fast track to the top of Olin Chemicals	Mar	21	50
Phosphates expansion	Aug		31	Kline's Tagamet: license request sparks	0	10	E1	Liquid chlorine and caustic prices N June 13-36 N		e 20	32
Nelson-T.S.R. Shoe Corp.—Shoe repair materials		16	42	controversy over Canada patent law Novus, Inc.—Epoxy formulation for wind-	Oct		51	Mercury trial: Olin asks for change of			
New England Power Co.—EPA okavs	Oct	17	69	Shield repair	Apr	28	45 47	Mercury trial delayed by adverse	May		18
switch from oil to coal at Brayton Point power plant N	Nov	28	18	Nuclear Fuels Corp.—Uranium cartel suit.	July		26	publicity	May	16	24
-Letter	Dec	19	12 28					Olin trial	Aug	8	20
Zinc oxide prices	Aug		35	0				York. Olin plans appeal.	Aug		20 49
Newco Chemical Waste Systems of Ohio— EPA approves liquid PCB disposal sites .	Dec	12	22	O.H. Materials Inc. C.				Judge weighs Olin's dismissal requests .	Sept	t 12	20
Waste sites: company pleads not guilty to violations of storing toxic wastes R	Apr	18	21	O.H. Materials, Inc.—System uses water under high pressure to flush out wastes				Olin Mark VII skis-Letter	Jan	17	5
N.Y. hearings open on bid to expand waste site	June	13	18	in ground, waste-laden water then treated with activated carbon	Sept	19	44	Polyols prices N	Aug	1 e 13	26 36

Reflections on the Great Depression.	0	24	40	& tables)	Apr	11	56	Petroleos Mexicanos Acrylonitrile plants N	Nov 1	14	76
John M. Olin	Oct		49	Some recession signs after strong	Auder	10	00	Dow contract for crude oil from Mexi-	Mar 2		17
Sodium chlorate prices N	Oct	21	25 32	Quarter		17	26 23	Gas pipeline from the U.S. border at			
Sulfuric acid prices N Surfactant-chemical tabs N		24 26	37 46	Self-insurance	Oct	14	40 44	Reynosa, Mex., to Los Ramones N Loan to Mexico will spur oil exports to	Mar	7	33
TDI market outlook (charts)	Jan	24	35 36	Teamsters mount boycott against PPG Trichloroethane prices N	Dec	5 28	22 27	U.S N Mexican petrochemical buildup is well	Sept 2	6	53
Olinkraft-Merger into Johns-Manville gets	June			Williams, L. Stanton, chairman and chief	100	20	2,	under way (table)	June 2		38
shareholders' O.K N Johns-Manville will use proceeds from	Jan	3	13	executive officer: He expects no big changes now that he's on top	Mar	7	52	Oil and gas reserves N Petro-Lewis Corp.—Ashland Oil's oil and			39
credit deal with 12 banks to pay for some stock	Jan	10	13	Wismer, Marco: Let's reason together and simplify PMN*—Other views	May	16	5	gas properties to be acquired N Petromin-France backs potash mining	Feb	7	13
Ontario Research Foundation-DiNuccio	uu.			PQ Corp.—Silicate maker seeks soda ash partners for Green River Basin, Wyo N			35	project N Petromont IncFormed to handle ex-	Oct 1	17	69
describes new system for rating the flammability hazard of various materials	Oct	31	34	Silicate prices N Feb 21-30, N Sept	Aug			pansion of the ethylene products indus-	C		69
Oragonesas—Merger with ERT halted by construction delay N	June	13	40	12-36	Dec	5	49	try in Montreal N -Correction N	Sept 2		53
Ore-Ida—Solar power system	Feb	7	38	shortage	Mar	7	15	Petronas—Japanese utilities bid for LNG output from Malaysian projectN	June	6	30
weighs researcher's suit against Ortho		00		Shiseido Cosmetic production know-				Petronor-Ethylene plant postponed N Petroquimica Cabo Negro-G-P will buy		1	32
pharmaceutical	Nov		25	how	Nov	21	22	Chilean ethylene for sale in U.S N	Aug 2	22	32
plant: Xylene explodes	Sept Sept	12	23 35	terminal at Point Conception: Final approval seen	July	18	25	Petroquisa—Brazil's Camacari complex (table)	May 3		27
Potassium titanate fibers will bid for insulation and plastics jobs N	Mar		34	Pacific Lighting Corp.—California LNG terminal at Point Conception: Final				Brazil's CPI shifts from oil to alcohol Petro-Tex Chemical Corp.—MTBE appli-	Nov 2	28	49
Ott-Story Chemical CoMichigan re-	Dec		24	approval seen	July	18	25	cation denied by EPA	Jan Mar	3	17
leases list of contamination sites Overseas Private Investment Corp.—	Dec	19	24	New Mexico coal gasification project is abandoned N	Mar	28	34	MTBE facility at Houston Apr 11-43,			
Political-risk coverage in Iran only \$54 million	Dec	5	21	Pacific Western Distributing Corp.—Mas- sachusetts state court upholds ban on				N May 30-55, N Oct 17-69 R O'Connell, Harry E., president: Former	Oct		24
Owens-Corning Fiberglas—Boating market Glass-fiber plant in Amarillo, Tex. N	Jan	24	15	butyl nitrite	Oct	10	22	track star closes in on butylenes market. Pettit Paint—Marine-coatings market	July	14	47
Jan 17-36 R		18	21	aerosol paint,	May	23	33	Pfizer, IncAnti-arthritis drug, Feldene,		-	42
Plastic slides	Sept	19	42 52	Pancontinental Mining Ltd.—Uranium car- tel suit.	July	25	26	introduced in Switzerland N COWPS grants price exemptions	Oct	20	43
Trademark policing: firms strive to keep well-known trademarks out of com-				Parsons Corp.—American firms can ex- pect to receive fewer energy-develop-				Docycycline importers backed by Justice Dept. in dispute with Pfizer N	Feb		23
mon usage	Aug Mar	15 28	45 40	ment contracts from Middle East says Leonhard	Oct	10	28	Fermentation recovery R&D center in		8	22
Niehous, William F., held for more than	Mai	20	40	Pawnee Plastics-Uniroyal acquires cus-	OUL	10	20	Groton, Conn		11	31
three years by leftist guerrillas in the Venezuelan jungle, is back on the job .	Sept	26	19	tom-extruded sheet plant in Redlands, CalifR	Mar	28	25	Market for lens chemicals	Oct June	27	39 27
Polyester-beverage-bottle plant in New Jersey	July		24	Peabody Coal Co.—Quenon discusses synfuels.	July		21	Pharmex, IncMassachusetts state court			22
Oxenham, Alfred J. (Co.)-Catalysts	Feb	7	35	Peabody International CorpAcquires				upholds ban on butyl nitrite	Oct		26
Oxirane CorpEthylene glycol plant at	Leb	/	35	Seismic Resources, Inc R Pearsall Chemical Corp.—Gulf terminates			21	Philippines National Oil Co.—Philippines: American firms to supply technology			
Channelview, Tex. shut down for an "indeterminate period" N Nov 28-34 N	Dec	5	17	discussions for leasing PAO unit N Witco plans acquisition R	Jan Dec	17	13 24	for petrochemicals project N Phillips Chemical—Automotive applica-	Nov	7	13
Oxirane International, IncMendolia at Society of Chemical Industry sym-				Pechiney Ugine Kuhlmann-China seeks Western aluminum technology N		31	30	tions for thermoplastic elastomers	June	6	38
posium	Oct	10	19	Hydrazine's worldwide markets (chart) .	Sept		34	Ethylene: markets, capacity etc. (chart & table)	Oct	3	32
Oxiteno Nordeste-Brazil's Camacari com- plex (table)	May	23	26	Piggyback sales beef up French chemical firms	Aug	1	30	Ethylene, propylene prices N Ford presents aerosol survey at CSMA	Nov	21	24
Project to produce acetaldehyde from ethanol	Nov	28	50	Pedco Environmental, Inc.—Limestone forecast			30	meeting	May June		32 32
Oxochem Enterprise-Puerto Rico-re-			56	Pedco International—Fermentation know-				Phillips Fibers Corp.—Engineering fabrics. Phillips Petroleum—Acquisition move to-			
port. Meyer Lurie (charts & tables) Oxy-Catalyst, Inc. — Catalysts report.	Apr	11	00	how for gasohol	Oct		45	ward Interplastic Corp N British CPI braces for Thatcher's impact.		7	13
Donald P. Burke Pt II: Who's who in catalysts	Арг	4	64	way for Wisconsin co-ops N Peerless Petrochemical Co.—Puerto Rico—			43	Tim Keeley (charts)	Oct	24	32
				report. Meyer Lurie (charts & tables) Pellico Sports Products-Do-it-yourself	Apr	11	56	analysts	Nov	7	17
P				approach to athletic-shoe resoling Penick, S.B. & CoCustom agents com-	May	16	42	Douce lists challenges refiners face in coping with lead phase-down at AIChE			
PCR, IncAcquired by SCM R	Feb	28	24	pare notes on controlled substances	Mar	7	42	meeting	Apr	11	42 27
PDM Trading, Inc.—Cleaver: Worldwide rosin market remains tight—outlook				Pyrethroid synthesizer: synthetic pyre- throid resmethrin	Jan	17	42	Gas woes fuel car pool drive	July	18	36
from Walter L. Cleaver, Sr., president,	Oct	3	21	Penn Central Corp.—Williams Energy Corp. to be acquired N	Feb	7	13	(table)	Sept	19	33
PFR Engineering Systems, Inc.—DOE to	OCI	3	21	Pennwalt Corp.—Chlorine-caustic outlook			30	Howard, R.L. reports to security ana- lysts in Salt Lake City, Utah: Phillips			
sponsor first solar facility linked to a chemical plant	Sept	5	76	(charts & table)	Mar			wants broader markets for plastics Johnstone, Leo H. and Richard G.	Mar	21	22
Solar-powered primary reformer for ammonia plant operated by Valley				prices N Oct 17-54	Sept.	19	69 46	Askew: Oil and chemicals, Era of			
Nitrogen Producers, Inc	Sept	12	27	Liquid caustic potash prices N Apr 25-27 N	Sept	19	35	peaceful coexistence?—report. Meyer Lurie (tables)	Oct	17	70
ied by FTC	May		19	Liquid-chlorine and caustic prices N	June	20	32	Lawsuit challenges Navajo tax plans LDPE capacity, markets (chart & table).		28	21 34
Antiknock gets a bum rap-Viewpoint. Auto-glass complex to be built near	May	30	5	Sodium chlorate prices N Tuttle comments on the recession	Sept		69 17	MTBE capacity under construction N NGL overcharges: DOE files court	May	30	55
Evansville, Ind N Auto production cuts will have mixed	Jan	31	13	Pennzoil—Refinery projects (table) Pequiven—Polyethylene plant planned		29	20	action	Jan	17	19
impact on many chemical suppliers Capital spending: PPG to boost outlays;	Aug	22	18	downstream from El Tablazo complex		14	44	Polyethylene's new pitch: properties not process. The line that differentiates			
sees no 1979 'nosedive'-Williams and				Perkin-Elmer-LC detectors	. Mar	14	39	low-density from high-density poly			
Burrell report to N.Y. security analysts.	May	30	19	UV – Vis instrument				ethylene resins is becoming more blurred	. Nov		50
ysts. Chemetron Corp. Chemical Products Div. business purchased R	Jan		45	Peroxid-Chemie GmbH-Persulfate price fixing suit: consent decree offered	Feb	28	18	Polypropylene markets: capacity (table) Refinery projects (table)	. Aug		
Chemicals Div.: chlorinated benzene			40	Perstorp AB-Pentaerythritol prices N	l Jun	e 27		Re-refining process: Demetallization and hydrotreating are keys	1		37
Chlor-alkali product prices	Jan Sept	12	20	Trimethylolpropane plant in Toledo	l Jun	e 20	28	Singapore HDPE plant planned P	4 June		
Chlorinated solvent prices N June 27-29	Oct	10	39	Pertamina-Indonesia seeks partners in petrochemicals finds urea plant finance				Singapore petrochemical complex pro spects brighten	May	/ 16	35
Chlorine and caustic soda prices , N Chlorine-caustic outlook (charts & table) .	Sept	t 5	65 30	Peterson/Puritan, Inc.—Aerosol R&D	d July	11 23	36 32	Utah oil shale: High Court move will de lay White River Oil Shale Project	. Jun	e 20	28
Chrome chemicals business to be sold to				Petkim Petrokimya-Petrochemical com	10			Phillips Products Co.—Compounding oper ations to be consolidated into American	-		
Harrisons & Crosfield Limited N Business sold	Oct		13 13	Petrobras—Alcohol-based ethylene plan	ŧ	28		Thermoplastic operations	R July	4	22
Corco settles claims	Dec		22 37	in the Philippines proposed ! Ammonia-from-coal project to be buil		v 28		Phillips Puerto Rico Core—Puerto Rico- report. Meyer Lurie (charts & tables)	. Apr	11	56
EPA exceeded authority in dropping methyl chloroform and methylene				by Krupp-Koppers	Wat Mar	21	38	Phoschem—Justice broadens probe of phosphate fertilizer exports	if		29
chloride from an exempt list suit			200	ventures to private interests, !	V Feb			Pierce Packing CoPCB leak from a re			20
Float-glass manufacturing unit at Mount			25	Oil-from-shale plant planned 1 Petro-Canada—LNG plant planned in th	е			serve transformer damaged by a loading vehicle was pinpointed as the source of	f		
Zion, III	Mar	28	25	Petrochemical Feedstock Importing Co.	R Mar	у 9	21	contamination in aminal-meat meal Pierce & Stevens Chemical CoCemen	. Sep	t 26	19
bullish forecast (table)	Dec		33	Japanese petrochemical makers see	k		7 24	for shoe repair	. May	y 16	41
	Sept	t 26		direct imports of naphtha	ır	b 7	7 24	subsidiary to John P. Cassell, presiden	it		
Organic peroxides prices N								and general manager,	R Jan	10	21
Organic peroxides prices N Peroxydicarbonate initiators plant plan- ned R	Juni	e 27	27	recovery unit at Whitecourt, Alberta t be bought	o R Jan	17	7 22	Pioneer Nuclear IncUranium carte	el		
Organic peroxides prices N	Juni	e 27	24	recovery unit at Whitecourt, Alberta t be bought	R Jan	17	7 22	Pioneer Uravan—Seeks okay for new	. July	y 25	26

Pipe Systems, IncHeat-storage pipes					Dec	5	52	Acquisition complete R	Sept 1	12	28	
use the phase-change properties of cal- cium chloride hexahydrate to store				Saudi Arabian fertilizer plant design contract	iept	5	69	Reynolds Aluminum Recycling Co.— Scrap aluminum price N	Feb 2	28 :	28	
energy N Thermal energy "storage battery" sys-	May	9	29					Reynolds Metals Co.—Aluminum markets (charts & table)	Jan 3	31 :	29	
tems will cut home heating costs in	May	16	48	0				Brazil's Valesul aluminum project might pass from state control N	Feb 1	14	14	
Pittstor CoRefinery in Eastport, Me.				•				Corpus Christi Tex., primary reduction			26	
still planned R Placco Co. of Puerto Rico-Puerto Rico-	Feb	7	22	Qatar General Petroleum—Financial par- ticipation in France's CdF Chimie to be				Defective aluminum may be in aircraft .	Aug 1	15	20	
report, Meyer Lurie (charts & tables) Placer Development-Endako molybde-	Apr	11	56		May :	23	30	Foil feedstock expansion in Arkansas N Reynolds, R.J. Industries—Aromatics In-	Mar 2	21	17	
num mine closed by strike	Mar	7	30	mont Inc. formed N S	Sept		69	ternational to be sold	Feb 1	14	18	
Placid Group—FERC may let Ampro ammonia plant use offshore gas	July		21	Queensland Mines LtdUranium cartel	eb :		53	new pitch: properties, not process. The				
Placid Oil—Blowout at oil well kills three . Polaroid—Aromatic diamine ester called	Mar	14	20	suit J	luly :	25 28	26 49	line that differentiates low-density from high-density polyethylene resins is be-				
Polacure	June	13	48	Quinn K. J. GmbH-Purchased by Sandoz				coming more blurred	Nov	7	50	
complex (table)	May	23	27		luly	11	13	Miles Laboratories approved R	Jan 1	17	22	
Policyd, S.A.—PVC plant: joint venture with Goodrich N	Nov	28	42	-				Rho-Chem Corp.—Semiconductors:chem- ical market (table)	Nov 2	21	15	
Polipropileno-Brazil's Camacari complex	May		27	K				Rhone-Poulenc-Aquagil to be purchased by Nalco France	Apr	4	26	
(table) Politeno – Brazil's Camacari complex					July	11	30	Aspirin capacity expansion N Dumas discusses drug price controls	Nov May		48 34	
Polyacryl Iran Corp.—Trying to cope	May		27	RKO General—FCC recommends renewal of Boston TV license	Oct	10	28	Finding jobs for workers it laid off			42	
with chaos in Iran	Jan	10	31	RMI CO.—Titanium sponge production	Feb	14	18	Foreign-owned firms looking at U.S.	May	30	66	
to block opposing bid for Polychrome Corp, from Dainippon Ink & Chemicals.	Mar	7	19	RTZ Services LtdUranium cartel suit J	July		26	Harris, D. George, president: He's French firm's American connection			45	
Rhone-Poulenc withdraws offer for					Jan	24	17	Piggyback sales beef up French Chemi-	Jan			
Polychrome N Dainippon Ink & Chemicals has 84%	Mar	14	13	Radiation Dynamics—Monsanto acquisi- tion of RD's stock R	Oct	17	28	cal firms	Aug	1	30	
equity Pontiac-CPI will fuel Detroit's efficiency	June	6	16		Apr	18	38	R&D program in recombinent DNA	Jan June		24 32	
drive (table)	Sept	19	20	plants to be studied for DOE N	Feb	7	35	Rhone-Poulenc healthy says chairman				
Pope, Evans & Robins-Fluidized-bed boiler	Mar	7	36	Pauker at Conference on Pacific Energy	July	11	36	Rhone-Poulenc raises cash through	Oct	24	20	
Potash Company of America—Potash	Aug	22	33	Saudi Arabian economic growth slow-	Jan		18	stock issue N Sales and earnings: Company is "on the	Nov	14	76	
capacity (table)				Synfuel report	July	18	22	road to recovery" N	June	20	45	
Capacity (table)		22	33	Rangaire Corp.—Lime markets (chart) Rapco Foam—Rapco Foam—Scientific Ap-	Apr	11	31	Seeks to block Dainippon Ink & Chemi- cals bid for Polychrome Corp	Mar	7	19	
for Brazilian potash mining N Potato Board—Ad sparks chemical-additive	Oct	17	69	plications UF foam process case to go to trial	Nov	14	25	Rhone-Poulenc withdraws offer for Polychrome N	Mar	14	13	
flap	Sept	5	21	Raymond Automation CoTablet ma-				U.S. acquisition eyed	Apr	18	19	
Minnesota planned, R	Feb		24	Rayonier-Rayon: New products, better	Nov	14	66	Makes acquisition bid for Anken In- dustries	May	9	18	
Predicasts, Inc.—Marine-coatings market . Premo Pharmaceutical Laboratories, Inc.		25	42	cost comparisons are giving rayon a new image (charts)	June	6	27	Richardson Co.'s Polymeric Systems DivSafety-glazing market may open, if				
-Cephalexin: Lilly granted injunction				Reckitt & Colman-Senior managers be-			25	CPSC weathering tests for plastics are				
against Premo and Federal in patent case	July	25	24	Reed Paper-Wallcoverings market	Aug	14	44	eliminated	Nov	21	19	
Prentiss Drug and Chemical Co.—Pyre- thrum importer	Jan	17	42	Reichhold Chemical del Caribe—Puerto Rico—report. Meyer Luria (charts &				Chemical Div. see under name Richardson-Merrell's Merrell-National Lab-				
Pressindustria-Surfactants plant for So-		28	42	tables) Reichhold Chemicals—Annual meeting:	Apr	11	56	oratories-Laxative called Chronulac:				
Procter & Gamble—Car-wash chemicals	May		36	earnings outlook good	Apr	18	19	Patients do not develop addiction when using prescription product	Oct	24	50	
Cogeneration project in Green Bay, Wis. hits snags	Aug	15	19	Hackettstown, N.J., plant doubles ca- pacity for making Solprene rubber				Rico Chemical Co.—Puerto Rico—report. Meyer Lurie (charts & tables)	Apr	11	56	
Household product sales: how the Big Three dominate the market (chart)			44	shoe-sole materials	Oct		24 32	Riley Stoker-Fluidized-hed boiler with				
Place on innovation: Federal officials		24	44	Polyester resin and polyvinyl acetate				guarantee offered N Feb 21-37 Fuel Burning Engineering Dept.: Solid	Mar	7	36	
should consider costs vs. benefits of new rules	Apr	4	41	prices N Polyolefin production increased; Cooke	Dec	19	69	waste as fuel: Riley's experiences out- lined at ASME's Industrial Power Con-				
Staten Island, N.Y. plants to be ex- panded N			9	Division renamed Thermoplastic and	Nov	28	22	ference		-	46	
Product Resources International—IMS-		14		Rosasco at International Naval Stores				Rio Algom Corp.—Uranium cartel suit Rio Algom Ltd.—Uranium cartel suit		25 25	26 26	
PRI search brings inventors and mar- keters together	July	11	41	Styrene butadiene latex and polyvinyl	Oct		23	Rio Alta Co.—Tenneco purchases proper- ties	Dec	12	17	
Whelan discusses proprietary drug in- dustry	May	, 2	50	acetate emulsion prices N Reigel Textile—Proposes a coal-fired	Apr	18	23	Rio Blanco Oil Shale-Surface retort is				
Product Sol IncProduct-Sol: Unilever		17	25	"high back pressure" steam turbine to	Apr	11	41	set for oil-shale test N Rio Tinto Zinc—R.V. Chemicals Ltd. see	July	25	46	
Production Equipment Inc.—Automatic				Reliance Electric CoExxon's plan to	repri		***	under name Uranium cartel suit	July	25	26	
and continuous-production equipment . Products Research and Chemical Corp.—	No	14	66	acquire Reliance Electric hits a snag in court N	Aug	8	14	Risk Planning Group-Captive insurance	Oct	2	41	
European subsidiaries sold to Sandoz N Produits Chimiques Ugine Kuhlmann-		/ 11	13	Exxon buys Reliance without FTC's	Oct		19	companies	-	3	41	
Prices for solvents, TDI, polyethers,		-		Reliance Universal-Esmark considers ac-				Robins, A.H.—Dalkon Shield-brand in-	Mar	14	20	
ABS and plasticizers N VCM-PVC expansion N	Apr	31	24 54	Remington Arms—Du Pont proposes to	Sept	t 5	19	trauterine contraceptive device lawsuit: Jury says Robins must pay \$6.8 million.	Aug	8	20	
Projektierung Chemischer Verfarenstech- nik-Air replaces oxygen in new coal				buy remainder N Ren Plastics—Liquid epoxies	July			Stockholders get new try in A. H.			-	
gasifier from Germany	. Mar	21	37	Replacement Lens, IncContact lens				Robintech Inc.—ICI Americas negotia-	Oct	3	25	
Camacari complex (table)	. May	y 23	27	Research-Cottrell - Pulse energization	Oct	3	38	tions for an extension of 32% of Robin- tech shares terminated	Sept	5	13	
Public Service Co. of Colorado—Hahco- lite will be tested for sulfur removal in	,			boosts efficiency of electrostatic pre- cipitators by up to 100%	Jun	e 27	31	Roche-Sales and earnings in 1978 R	June	13	42	
coal-fired power plant N Metzger, H. Peter: The coercive Uto	I Oct	31	40	Pulse energization puts new life into			40	Roche Australia—Roche Analytical Ser- vices, analytical laboratory R		21	22	
pians: their hidden agenda'-Other	r			electrostatic precipitators	July		40	Roche-Maag LtdPyrethroid insecticide				
How 'Coercive Utopians' may get	t			Research Services Corp.—Waste fibers	Feb	21	41	will be developed in Japan and in Australia N	July	25	45	
Public Service Electric and Gas—Meadow	. Au	9 15	5	could be source water-gels N Research Triangle Institute—Controlled-	Feb	14	36	Rockcor, Inc.—Astrofrac explosive—a mix- ture of hydrazine and ammonium				
lands waste dump will be tapped for	r	- 10	30	release contraceptive system involves				nitrate	. Sept	12	34	
methane	A .	r 18		polymeric capsules implanted under the skin	Oct	1 17	51	Astrofrac explosive fracturing process aims to recover more natural gas from				
blends		t 31		Reserve Oil & Gas Co.—Merger with a wholly-owned U.S. subsidiary of Deni-				Shele	. Jan	31	37	
Puerto Rico Chemical CoPuerto Rico-	-			son Mines Ltd N		9 22		venture will market cogeneration		26	32	
report. Meyer Lurie (charts & tables) Puerto Rico Olefins Co.—Corco settle	5	r 11		Methane-from-waste N Reserve Oil and Minerals—Uranium cartel	Apı	r 18		district heating systems		-		
Ethylene: markets, capacity etc. (char	. De	c 5	22	suit	Juh	y 25	5 26	for fast-breeder reactor design N Scientific Design will evaluate a com		14	51	
& table)	. Oc	t 3	32	table)	Jan	3	1 29	mercial hydropyrolysis plant N	Dec	5	66	
& tables)	. Ap	r 11	56	Revion — Hydrocarbon-propelled containers	Mar	y 23		Rocky Mountain Chemical Co.—Methyl- methacrylate-based concrete for bridge			part.	
report, Meyer Lurie (charts & tables)	. Ap	r 11	56	Nail polish business	Au	9 1	8 41	maintenance	. Aug	29	52	
Pullman Kellogg Division of Pullman Inc -Ammonia plant builders settle paten	1.			Rex-Flotation equipment				equity in Carodel from Teijin R	Feb	7	22	
dispute	. Set	pt 19		Rexene—Polypropylene markets: capa- city (table)		t 2		Acquires Sacramento Clinical Labora tory, Inc.	. Nov		25	
Chinese complex design	Ma . Jai	n 17	7 20	Polypropylene prices N Aug 8-23 N Slatin: outlook for polypropylene	Au	g 1!	5 35 4 29	Acrylic sheet capacity boost R Alkylphenol prices	Oct Apr	17	28	
Chinese will train in U.S. CPI plants Finneran discusses synfuels	. Se			Rexene Polyolefins—El Paso to buy Dart's 50% share		ne 2		Brazil's agricultural chemicals maken benefit from farm output incentives .	3	31	31	
	-				Jul	6		tions and despet internition (

Gregory, reports to financial analysts:				Sandia Laboratories-Fool's gold may boost the amount of liquids derived				Chlorine-caustic outlook (charts & tables)	Mar	14	30	
trend toward higher earnings con- tinues	Oct	17	22	from coal	Aug	8	31	Colombia shipping rates contested	Feb	7	22	
Methylmethacrylate-based concrete for bridge maintenance	Aug	29	52	Sandman, Eli-Thermal incineration sys-	July	11	30	COWPS grants price exemptions De Leeuw on polypropylene	June	20	22	
Pennsylvania checking out dumping site near Chester	Feb	21	25	tem monitors methanol vapors in a drying operation	Aug	8	36	Ethylene: markets, capacity etc. (chart table)	Oct	3	32	
Phenol prices N	Mar		32	Sandoz-Brazilian agricultural chemicals	Oct		32	Ethylene prices N	Mar	14	24	
Propylene-based acrylate monomer plant in Houston Tex. expansion R	June	27	27	market	Oct	31	32	Henderson, James B., president: For his 20th anniversary he got top spot	Oct	31	52	
Trademark policing: firms strive to keep well-known trademarks out of com-				four dye-makers sell out (charts & table)	July	4	16	Hydrogen peroxide expansions highlight bullish forecast (table)			-	
mon usage	Aug		45	-Letter	Aug	1	6	Inventories: How some firms keep track	Dec		33	
Vacor rodenticide sales stopped R Rohm and Haas requests EPA cancel	May		22	EPA speeding up program for approval of biorational pesticides says Jellinek N	July	4	39	of their supplies	May	23	15	
registrations of Vacor rodenticides R Wilson on innovation: Industry should	Sept	26	69	PRC's European subsidiaries purchased	July	11	13	ethylene	June		29	
own rights to discoveries from R&D				Sales and earnings '78 N	May	9	39	Mai, Klaus L.: Oil and chemicals. Era	June	6	38	
it sponsors with government Rollins Environmental Services-Bridge-	Apr	4	40	Sanforized Co.—Sanfor-Set process makes cotton shirts wrinkle-free	Feb	7	25	of peaceful coexistence? — report. Meyer Lurie (tables)	Oct	17	70	
port, N.J. waste-treatment plant gears up after shut down following explosion:				Sanyo Chemical Industries Ltd.—Enzymes speed blood testing	Mar	28	40	Manufacturing of acrolein, hydrogen peroxide and glycerine to cease N	0-1	21		
Permit to open hazardous-waste treat-				Polyacrylamide purchased by Russia . N Sales and profits up sharply (table)	July	18	42 33	MMT: threatened suits make refiners	Oct		13	
ment unit near Charlotte, N.C. asked. R Lurcott at AIChE meeting discusses	Jan	3	21	Starch-grafted polyacrylate superabsor-				wary of MMT	June	13	21	
PCB-disposal sites: permits sought	Aug May	29	18	bent polymers to get capacity boost R Sapolin Paints Inc.—Paint warranty	Sept	26	69 36	insecticide business N Netherlands: strikes hit petrochemical	Mar	7	13	
Velsicol's pesticide wastes from Mem-	,			Sargent-Welch - UV - Vis spectrophoto-	Mar		39	plants N	Oct	3	31	
phis, Tenn. plant will not be incinerated	July	18	27	Sarma S.P.A.—Purchased by Sandoz N	July	11	13	Petrochemical products prices N Polypropylene markets: capacity {table}	Jan Oct	17	32 29	
Rorer Group-Narco Scientific being acquired	Jan	17	22	Sesol—Fischer-Tropsch coal conversion technology to be sold in U.S N	Sept	5	76	Polypropylene prices N Mar 14-24, N Aug 8-23 N	Aug	15	35	
Roussel-Uclaf-Pyrethroids	Jan	17	42	Sasol chemistry ready to go to work in U.S. synfuels programs (flowsheet)	Sept		45	Pyrethroids	Jan	17	42	
R&D program in recombinant DNA Royal Dutch/Shell Group-de Bruyne at	June	21	32	Texas Eastern contracts for synfuel				Reynolds discusses inventories	Jan Oct	24	17	
N.Y. financial analysts meeting: petro- chemical prosper, fuel outlook brigh-				technical assistance	Oct	17	24	Synthetic pyrethroid insecticide plant, planned in Mobile, Ala	Aug		22	
tens	Oct	3	21	units to be bought	Jan	24	9	Thermoplastic rubber facility 4th at				
Japanese utilities bid for LNG output from Malaysian project N	June	6	30	Saufton International—Soft extended-wear lenses	Oct	3	38	Marietta, O. planned N Shell Chemical U.K.—British CPI braces	Nov	14	17	
Naphtha prices N Wack discusses petrochemical growth	May	23	30	Schering AG-Acquires three Ashland Chemical plants in Mapleton, III.,				for Thatcher's impact. Tim Keeley	Oct	24	32	
prospects	Jan	24	14	Janesville, Wis. and Oakland, Calif R Collaboration with Cooper Labs planned	Jan	17	22	(charts)				
Royer Foundry & Machine-Morgensen Sizer screening equipment will be made					June		17	tract awarded	Jan June	13	17 38	
in the U.S. by a joint venture N Royer/Morgensen, IncMorgensen Sizer	Oct	17	40	Genetic-engineering research	June	27	32	Sales and earnings: fourth-quarter fore- cast reports more losses, blames				
screening equipment will be made in				McQueen (charts & tables)	June	20	47	naphtha prices N	Jan	17	32	
the U.S. by a joint venture N Royster—Tampa Bay, Fla., anhydrous	Oct	17	40	search	June		32	Scotland's gas-separation plant delayed	May	9	40	
ammonia terminal: bids asked to determine cost of doubling capacity . R	Aug	15	24	Infrared maintenance	Mar	28	35 22	Construction still in doubt: Shell and Esso fight for U.K. petrochemical				
Rubicon Chemical-Contracts to Barnard	Muy	, ,,	24	Stock purchase planned N White Laboratories Div.: Chicago jury	May	2	13	base	July	4	48	
and Burk Inc. for MDI unit at Geismar La	Aug	15	24	awards cancer victim \$800,000 in				U.K. gas-separation unit is okayed, faces more delay N	Aug	22	35	
Methane diisocyanate (MDI) plant at Geismar, La. planned N		e 27	17	verdict against Schering-Plough Schott-ACHEMA 1979: sulfuric acid	Sept	5	19	Gas-separation unit is challenged again				
Nitrogen organic capacity boosted N	Jan	24	37	recovery process	July	4	45	Shell Chemie S.APolypropylene plant	Oct	3	31	
TDI market outlook (charts) Urethane precursors expansion	Jan Sep	t 5	35 17	Schroders Inc.—Allied's Connor named to head financial group	Nov	14	22	at Berre Chemicals complex in France R Shell Chimie—VCM-PVC expansion N	Apr	18	21 54	
Rubinstein, Helena IncKAO Soap to			21	Scientific Applications-Rapco Foam-				Shell Development-Liquefaction: Pitts-				
buy Colgate-Palmolive's interest R Rust Engineering CoWood-to-oil pro-		18		Scientific Applications UF foam process case to go to trial	New	14	25	burgh conference	Aug	8	35	
Rynco Scientific—CAB lenses	Aug	15	23 38	Scientific Design-Technical evaluation of		,	20	in refinery cat cracking patent says N Shell International Chemical—Singapore	Jan	10	34	
				a 100,000-bbls./day plant using the hydropyrolysis process under develop-				ethylene oxide paint N	Aug	1	32	
•				ment by Rockwell and Cities Service. N Scientific Inc.—Kin Buc landfill in Edison,	Dec	5	66	Shell Internationale Petroleum Maats- chappij B.VAwards Uhde GmbH con-				
3				N.J.: Justice, EPA sue under RCRA				tract to design a hydrogen plant for Saudi Arabia	Aug	1	18	
SCA ServicesChem-Trol facility pipe-				Feb 14-13	May		15 36	Shell Internationale Research Maats-	7 109			
line for discharge of wastes: New York attorney general moves to block waste				Scott Paper CoEverett, Wash, union accepts three-year contract R		28	24	chappij B.V.—Tin counteracts heavy metals in refinery cat cracking patent				
permits	July	y 4	22	Oconto Falls, Wis. pulp mill: \$1 million				says N Shell Nederland Chemie—Lowlands CPI	Jan	10	34	
Kin Buc landfill in Edison, N.J.: Justice, EPA sue under RCRA Feb 14-13	May	y 2	15	to settle water pollution violations . R Waste materials for fuel	Jan June	17	22	tries for new highs	July		34	
SCM Corp.—Acquires PCR, Inc R Fine-chemicals plant near Brunswick,	Feb	28	24	Sea-Land Service, Inc.—Du Pont complain- ing of overcharges on ocean freightR		15	24	MTBE unit at Pernis planned N Shell Oil Co.—Baltimore Canyon drilling	Oct	17	69	
Ga R	Mar	28	25	Sealand Technology Ltd"Market and	,			closed down	Feb	21	21	
Glidden Div.: Gas chromatograph will purify perfume, flavor chemicals on				Technical Survey of the International Catalysts and Catalytic Processes In-				trend toward higher earnings con-				
plant scale N —Correction	Jun	e 6	35 56	dustry" study N Sealed Air Corp.—Air-bubble technology	Feb	7	35	Deer Park, Tex. complex: fire forces	Oct	17	22	
Glidden Div.: Menthol market	Nov		49	in insulation applications		20	41	cutbacks	Sept		19	
Proxy fight puts SCM's future as diversi- fied corporation on the line	Oct	17	25	Searuist Valve Co.—Aerosol propellants Searle, G.D.—Hemagglutinins produced		23	33	Lawsuit challenges Navajo tax plans	Apr Mar	18	13	
SKW Trostberg AG-Airco ferroalloys	Dec	: 12	21	from flu virus genes in bacteria		30	20 32	MTBE plant planned N Modernization program for its three	May	30	55	
facilities to be purchased N SRI International — Cox at CMRA	May	y 16	17	Seismic Resources, IncAcquired by				West Coast refineries, at Wilmington				
meeting	Feb	21	40	Peabody International	Apr	18	21	and Martinez, Calif., and Anacortes, Wash. consideredN	Sept	26	13	
Euphorbia research	Dec	12	53	sharply (table)	Nov	21	33	NGL overcharges: DOE files court action	Jan	17	19	
mand	Mar	28	24	vinyl chloride plant at Sasolberg has		-		Oil-shale leases: Supreme Court to re- view decision rejecting Interior effort	Juli		10	
One-step silicon process could slash solar cell costs N	Sep	t 5	76	good first year		22	44	to invalidate Western oil-shale leases	Oct	10	26	
"Specialty Chemicals-Strategies for Suc- cess" a new multiclient report (chart) .	Dec	5	28	case (1972): French criminal court begins to hear testimony		31	22	Seggerman at NP & CA meeting Shell/Exxon projects in Saudi Arabia	Nov	7	40	
Wilson discusses petrochemicals in				707 CoPyrethrin manufacturers that	Jul	01		mired in negotiations N	May	9	13	
Searbergwerke AG-Lime-based flue-gas	Jan		14	be granted relief	May	30	22	Tertiary recovery of crude oil backed by DOE	Apr	18	14	
desulfurization system N Sacramento Clinical Laboratory—Acquired	Apr	26	48	Shell Canda-Refinery to be built near Edmonton, will provide a new base-				Sherwin-Williams—Cleveland CPI firms given little say as city's problems mount	Jan		33	
by Rohm and Haas	Nov	v 7	25	aromatics for Alberta's petrochemical				Gulf + Western Industries to increase				
St. Joe Minerals-Gold-silver-copper de- posit in Chile R	Apr	4	26	Shell Chemical—Acetone prices N	Dec Apr		27 23	stake	Feb	7	28	
St. Regis Paper Co.—Expansion program to boost production by 1982 at Pensa-				Animal-health business bought by Dia-			17	are strictly for investment	Mar	21	45	
cola, Fla., Houston, Tex. and Alberta,	A		17	mond Shamrock N Australian CPt buildup	Feb			Williams	Aug	29	49	
Canada	Apr	e 20	17 42	Australian polypropylene plant at Gee- long onstream N	July	18	38	Williams at NP & CA meeting discusses waste disposal	Nov	7	40	
Salsbury Laboratories—Acquired by Sol- tex Polymer			18	Bisphenol A capacity (table)	Dec			Shin-Etsu Chemical Co. LtdChina con-				
Salzgitter-Libyan petrochemical com-				Bladex herbicide; Pydrin synthetic pyre- throid	Oct	10	36	tract for PVC plants	Jan	10	21	
San Diego Gas & Electric—Magma Power's	Jan	10	40	Catalysts report, Donald P. Burke Pt II: Who's who in catalysts	Apr	4	64	Etsu Handotai	Mar	14	13	
geothermal plant power to be pur- chased		17	27	Chemical complex near Edgard, La. planned		31		director: He says U.S. is best place	10	20	50	
	Jeff	.,	**	promised	Jari	31	10	for investing capital	Mar	14	52	

Shintech to double size of PVC plant		10	20	Sopran-Rhone-Poulenc finding jobs for	Jan	10	42
at Freeport, Tex	June		22	workers it laid off			42
ing to sell its shares N Shin Seung Corp.—Town to house potash complex workers in Jordan to be built N		10	13	venture import-export company R South African Coal, Oil and Gas Corp.— Sasol II coal-gasification facility ex-	June		
Shintech IncKanagawa, Chihiro, chair- man of the board: He says U.S. is best				South Hampton Refining—MTBE tech-	Mar	7	23
place for investing capital	Mar Sept	14	52 17	nology	Mar	7	18
PVC plant at Freeport, Tex. to double sizeR	June	13	22	Waterslides	Aug		42
The Shipley Co.—Du Pont to acquire company N Oct 17-17 R	Dec	5	43	tion project	July	25	24
Shiseido Co.—Licenses production know- how to Pacific Chemical Industrial Co. R	Nov	21	22	Calif, Aug 8-19	Aug	8	32
Showa Denko-Ammonia/urea cutbacks continue	June	20	46	LNG terminal may be ready by 1983 N Proctor discusses gas surplus at AGA	Nov	7	47
China sells naphtha to Japanese chemi- cal firms N	Sept	26	53	meet	Jan	24	15
Sales & earnings 1978 N Sierra Nuclear-Tin-nitride process to re-	Mar	7	33	stration unit submitted N SRC-I coal-to-solids project	Aug	17	31 28
cycle nuclear fuel: Battelle study due N Sigma Coatings-Marine-coatings market .	Nov	21 25	46 42	Southern Industries—Lime markets (chart) Southern Natural Resources—Mexican gas	Apr	11	31
Simpson Paper-Combined-cycle gas tur- bine and steam turbine, fueled by wood				competition N Southern Research Institute—Controlled-	Aug	1	9
wastes, to run pulp digester N Sinor-Kao-Fatty acids plant at Barcelona,	Apr	11	41	release contraceptive systems Southern Union Co.—Solar power steam	Oct	17	51
Spain	Aug	15	42	for refinery at Hobbs, N.M	Feb	7	38
Smith Bowman-Gasohol production to	May	16	28	quisition: Mobil's \$800 million bid wins N	Apr	4	17
Smith, Miller & Patch—Market for lens chemicals	Oct	3	39	Joint offer with Tenneco Oil to bid for International Paper's General Crude N	Mar	21	17
Smith, Stanley & CoMarine-coatings	July	25	42	Mobil offer makes bidding for General Crude Oil go higher N	Mar	28	17
market SmithKline Corp.—FDA approval to market ticrynafen	May	9	21	Lawsuit challenges Navajo tax plans Southwest Forest Industries—International Paper's Florida complex to be bought	Mar	28	21
care field with acquisition of Allergan Pharmaceuticals	Dec	19	22	Southwest Research Institute—Solar po-	Jan	31	13
Ulcer-drug Tagamet: Canada patent law sparks drug controversy as Novopharm				wer system for brewery	Feb	7	38
applies for ulcer-drug license	Oct		51	Sulphiex, could replace asphalt Southwest Specialty Chemicals—Small	Aug	15	18
18 N Snia Viscosa-Agreements with the Soviet	Oct	17	69	chemical companies brace for TSCA's impact	May	2	57
Union N Creditors seek repayment plan as CPI	Nov	7	48	Southwire—Aluminum markets (charts & table)	Jan	31	29
Four plants to close this month N	Jan July	31	32 36	Soviete de Prayon-Joint venture has means of recovering uranium from			
Italian government supports recovery plans	Aug	22	35	phosphoric acid, N Spectra-Physics, Inc.—RTV laser Analyzer.	Oct	10 14	42 39
Merger with Montefibre in jeopardy . N Montefibre's losses halt merger N	Jan Feb	10	40 24	Spencer Stuart & Associates—Executive hiring report.	Jan	10	32
No progress in bailing out Italian com- panies	Dec	5	51	Springborn Laboratories—Springborn at ACS meeting discusses global approach			
Process to make caprolactam that elimi- nates ammonium sulfate coproduction			35	to regulations	Apr		46
Sales and earnings '78 N	Apr		26	division formed	Apr		13
Sobin Chemicals—China's door is open but it takes time to get in	Jan	24	32	Price guidelines: company found to be	Jan	17	21
SIR—Ailing Italian firms may get new financing from banks	Jan	17	32	out of line with guidelines N COWPS says company is in complete	Sept		42
Creditors seek repayment plan as CPI losses exceed \$1 billion (table) Italian government supports recovery	Jan	31	32	compliance on prices	1400	1-4	44
plans	Aug	22	35	Michigan	Feb	7	41
bled N	Sept	12	41	conversion of ethylene and propylene:	Oct	17	40
Kuwait puts a lien on Sardoil refinery in Sardinia	Aug	15	29	agreement with Cetus	June	20	22
companies N Problems move toward solution N	Dec	5 14	51 43	Standard Oil (Indiana)—Iranian crisis MMT: threatened suits make refiners	Nov		17
Italina banks move to bail out SIR	May		20	wary of MMT	June	13	21
Unions set for strikes, plant seizures . N Societe Française des Laboratoires Abbott	Mar		40	Era of peaceful coexistence?—report. Meyer Lurie (tables)	Oct	17	70
-French tax authorities look at Abbott Labs	Nov	14	41	Whiting refinery hit by fires. Standard Oil Co. (Ohio)—Acquisition of	Feb		26
Societe Generale de Financement-Que- bec's Petromont plans to compete in	1400		41	Webb Resources Inc. and Newco Explor- ation Co	June	13	13
world ethylene-products market N Soc. Pour la Promotion Activities Nou-	Nov	14	76	Alaskan pipeline proposed by North- west Alaskan Pipeline Co.: Oilmen			
velles-Rhone-Poulenc finding jobs for workers it laid off	Jan	10	42	have hope for natural gas line Cleveland CPI firms given little say as	Aug	29	25
Sogo et CieSoviet-Spain form 50-50 joint venture import-export company R	June		42	city's problems mount	Jan June	31	33
Sojuzchimexport-50-50 joint venture chemical export-import company with				Del Duca, Betty S., manager of inter- national crude-oil supplies: She's a	Cana		
Spanish companies R Solar and Chemical Power NASA—A	June	e 13	42	Ph.D chemist with lots of curiosity Oil terminal in Long Beach, Calif., and a	Jan	17	48
SWEET story about some valuable ASSETS—Other views, Ernst M. Cohn	Jan	10	5	pipeline to Midland, Tex. to move Alaskan crude scuttled	Mar	21	23
Soltex Polymer—Acquires Salsbury Lab- oratories	Nov		18	Sohio reconsiders oil project	Mar	28	21
HDPE markets: producers, capacity	Sept	5	17	Sohio	May		23
etc. (table)	Sept	19	33	Utah oil shale: High Court move will delay White River Oil Shale Project	June		28
Lextar see under name		30	13	Vistron Corp. see under name Stantrans Inc.—Butadiene storage facility			
Polypropylene markets: capacity (table) Solvay & Cie-Business upturn, sales		24	29	acquired from Anchortak Inc Ř State Chemical Mfg. Co.—"Refresh"	Mar		25
Improve	July		47	carpet deodorizer	Nov	28	46
ize polyolefin pulps R Interox America see under name	Feb	21	26	Insurance firms take a cautious approach to glass-repair technology	Apr	4	45
Persulfate price fixing suit: consent decree offered	Feb	28	18	P.T. Statomer—PVC plant in Indonesia N Stauffer Chemical Co.—Aromatics prices	Apr	11	54
Soltex Polymer see under name Solvents Recovery Services of New				California air rules: San Francisco Bay	Mar	21	32
Singland—Waste cleanup costs	May	16	17 28	area companies take their case to court.	July	4	19
Sonics International—Texas waste-disposal firms probed by Congress	May	23	18	Catalysts report, Donald P. Burke Pt II: Who's who in catalysts	Apr	4	64

Chlorine-caustic outlook (charts & table). EPA exceeded authority in dropping methyl chloroform and methylene	Mar	14	30
chloride from an exempt list suit charges N Ethyl silicate products prices N Ethyl silicates expansion at Weston,	Apr Nov	4 7	25 28
Ethyl silicates expansion at Weston, Mich	Feb	14	18
intermediate ethyl chlorsanthemate at its Edison, N.J. plant	Nov	28	28
ing (table)	Dec	12	41
Modified-whey-solids protein	May Apr	9	14 39
Parathion pesticide case settled out of court	Jan	31	21
at Henderson, Nev	Feb Feb	7 28	38
-Correction	Mar Aug	7 22	24 32
Wallcoverings market	Mar	14	44
Steel Tank Institute-Tank with anti-	Apr	11	32
Connan Chaminal Co Manuscad N I	Sept	19	52 45
Phthalic anhydride prices N Reflections on the Great Depression,	Mar	28	28
Steplan Chemical Co.—Insylvation R Phthalic anhydride prices Reflections on the Great Depression. Alfred C. Stepan, Jr. Sales and earnings up Sterling Drug—Aspirin may have preven-	Oct	7	47
d-Con: insect repellent market	Oct July	3	52 34
Steuart Petroleum Co.—Joint venture refinery in N.C	Nov	7	17
Stevens, J.P.—Packed-column scrubber known as an autocondenser tames vapors at J.P. Stevens' Wallace, N.C.			
Stone & Webster Engineering—Engineering	May	30	59
for Getty methanol plant N Feasibility of making gas from heavy-	Dec	19	17
oil residue is subject of study N	Nov	7	47
Oak Ridge fluidized-bed contract Thermal Regnerative Cracking (TRC)	Sept	5	23
Thermal Regnerative Cracking (TRC) process that can make ethylene from			
resid to get pilot plant test N	Oct May	24	38
Stone Soap-Car-wash chemicals. Stride Rite-Uniroyal's footwear lines bought	Sept		27
Meyer Lurie (charts & tables)	Apr	11	56
Sulfab—Brazil's Camacari complex (table) Sulzer—Argentina's heavy-water plant bid- der	May	23	37
Sumitomo Chemical—China sells naphtha to Japanese chemical firms N	Sept		53
Japan-Saudi methanol unit gets new investors	Nov	21	28
Naphtha price agreement N Phillips Petroleum nears HDPE deal in	May	30	13
Singapore	June		39
Pyrethroids	Jan	17	42
Sales & earnings 1978. N Singapore complex given go-ahead N Feb 7-24, N May 16-35, N Aug 1-32 N	Mar	31	33
rechnology for Shell's synthetic pyre-	Oct		22
Sumitorno Chemical America—Fukami, Koichi president: He'll push for profits from pesticide products	May	9	49
Summit National Liquid ServicesWaste	May		17
Sun Chemical Corp.—Aid to education Chromallov American Corp. holdings to	May	2	64
be increased	July		13
stock	July		24
Sun Co.—Acquisition of Carboline Co. planned	Aug	15	13
ret N	Sept	12	13
Fund-raising for Olympics. Refinery projects (table). Sales and earnigns: Sun finds stronger	Feb Aug	7 29	27
Sales and earnigns: Sun finds stronger petrochemicals margins	Dec		28
SEC requesting either that Sun Co. be ordered to divest Becton, Dickinson			
& Co. stock illegally acquired or that sellers be deprived of the premiums			
they received	Sept Sept		24
Utah oil shale: High Court move will delay White River Oil Shale Project	June	20	28
Sun Gas—Gas woes fuel car pool drive Sun Petroleum Products Co.—Helm at NPRA meeting	July		50
SunOtin-Ethylene: markets capacity etc.	Oct	3	33
Suntec Systems Inc.—Solar collector N Suntech Group—Air Products will market	Jan	17	21
Suntech's MTBE technology N EPA clears the way for development of	Mar		31
new antiknock for gasoline N MTBE technology Superior Oil—Mobil drops talent-theft	Aug	7	10
suit against Superior	Juni	27	2
tract cadmium from phosphates N Surpass Chemicals LtdProposed merger	Sept	5	61
of Surpass and a wholly-owned Canadian subsidiary of Witco R	July	11	2

Svenska Handelsbanken-Wallander, Jan:				Cancer among refinery workers at Port Arthur, Tex. to be studied	July	11	18		UC agreement for carbon fiber N Tosco-Refinery projects (table)	Jan Aug		9 20
Budgets and forecasts: necessary evils— Other views	Oct	3	5	Coal-gasification project R	July	25	24		Towers, Perrin, Forster & Crosby-	Aug		20
Swift Agricultural Chemicals—Operator for fertilizer mixing plants N	June :	20	17	Coal gasifiers: Odle at Pittsburgh con- ference	Aug	8	32		Annual retainers paid to outside direc- tors of 90 of the top 100 U.S. industrial			
Swiss Federal Research Station-Dow's findings that dioxins are natural pro-				Electrical field may help recover oil from shale N	Oct	24	38		companies	Aug	29	49
ducts of all combustion: researcher dis-			-	Ethylene: markets, capacity etc. (chart					'feeble'	Aug	29	49
pute claims	Sept	19	25	& table)	Oct	3	32		Toyo Engineering—Chinese contracts (table)	Jan	17	20
sets business to be purchased N	May	2	13	oil residue is subject of study N Gasification plant in Wyoming: feasi-	Nov	7	47		Toyo Hydrazine-Hydrazine markets	Sept		35
Sybetra—Iraqi phosphate project is far behind scheudle	Aug	8	25	bility study N	Oct	31	13		Traco-Jitco CoGAO criticizes NCI on cancer testing	May	2	23
Syncrude—Athabasca oil sands plant ex- pansion	Oct	17	21	Gasified coal power plant near Daggett, Calif. Aug 8-19	Aug	8	32		Trans-Alaska Pipeline System-Alaskans	Mar	14	39
Heavy-oil recovery	June	13	24	Hayton, Ben C.: Oil and chemicals.					could get a share of oil pipeline under		-	40
Syntex Corp.—Anti-arthritic drug Napro- syn: FDA accepts new test data R	Aug	8	22	Era of peaceful coexistence?—report. Meyer Lurie (tables)	Oct	17	70		proposed stock plan	Mar	7	46
Anti-inflammatory drug approved for more uses in Japan N	June	6	30	Joint HDPE ventures with USS Chemi- cals	Nov	21	13		venture will market cogeneration, dis- trict heating systems N	Sept	26	32
Naproxen, anti-arthritic drug, lawsuit				Cals	Jan		21		Transco-Mexican gas competition N	Aug	1	9
settlements with shareholders and Industrial Bio-Test Labs nears	Feb	28	22	onstream					Transcontinental Gas Pipe Line Corp.— FCA and CF Industries awarded addi-			
Syntex Laboratories, Inc.—Faces lawsuits over recalled formulas	Aug	22	30	Lignosulfonate systems for tertiary oil	June		65		Joint pipeline to import natural gas	Feb	28	24
Syntex Opthalmics-Materials for soft	Oct		38	recovery N NGL overcharges: DOE files court	May	30	55		from Canada planned N Transformer Sales Co.—Three plead quilty	Aug	29	17
Synthetic Fuels Corp.—Bill heads for				action	Jan	17	19		to illegal PCB dumping in N.C	Jan	31	21
House-Senate conference N Synthetic Oil Corporation of America—	Nov	28	18	OCAW rejects oil firms' first pay pro- proposals N	Jan	3	13		Transport Canada—Ellison discusses trans- portation of dangerous goods at Cana-			
Purchases the Cargill alkyd resin plant in Philadelphia	July	25	24	Port Arthur explosion and fire in 1977: company settles with OSHA R	Jan	31	21		dian specialties meeting	Oct	31	34
Syracuse Research-New toxicology labs			48	Refinery projects (table)		29	20		gasification project is abandoned N	Mar	28	34
open N	Feb	26	40	Texas City Refining—Refinery projects (table)	Aug	29	20		The Travelers Corp.—Allied's new presi- dent Edward L. Hennessy, Jr. joins			
T				Texas Eastern Corp.—Gasification plant in Wyoming: feasibility study N	Oct	31	13		Travelers board	Aug	22	20
				Synthetic fuel: Texas Eastern eyes mid-	Oct		24		ship formed to buy Amax Forest			
TRW-Ocean Thermal Energy Conversion (OTEC) studies	Dec	5	67	1980s for synfuels					Products N Tremco Inc.—Chemed buys stock N	June	29	17
Solar power system for Ore-Ida	Feb	7	38	competition N Texas Gas Transmission Corp.—Ken-Tex	Aug	1	9		Goodrich completes stock purchase . N Trewax CoGrow Chemical to buy	Oct	3	13
Takamisawa Koki Mfg. Co.—Valves	Nov	14	66	seeks DOE coal-project funding	Dec	12	26		stock R	Jan	10	21
ket	Nov		49 41	control schools N	Aug	15	38		Tri-Valley Growers-Waste-burning cuts fuel consumption N	July	11	25
Tanabe-Syntex Co., Ltd.—Anti-inflam-	1404		**	Silicon-based system promises to reduce cost of solar cells	May	30	55		Trunkline Gas CoMexican gas competition N	Aug	1	9
matory drug approved for more uses in Japan N	June	6	30	Solid-state strip-chart recorder	Oct	31	47		Tube Investments, Ltd.—Australia testing filters to cut lead emissions N		15	38
Taracorp Inc.—NL Industries' three re- cycled lead plants purchased	Aug	22	19	chases oilfield businesses N	Jan	3	13		Turkish Petroleum Enterprise-Buys Mobil			
Taylor, A.L.—"Valley of the Drums' to be a model waste site	May	9	19	Texas OlefinsMTBE technology Texas United CorpVer Hoever, Ray-	Mar	7	18		shares in the Mersin unit		28	39
Taylor Instruments-Single-loop micro-				mond W. resigns as Velsicol president; will become executive vice-president of					sonal-care products market in Switzer- land		24	44
processor controller N Systems for control instrumentation	Apr	2	41 55	Texas United Corp	Sept	26	19	12	Tyco Laboratories—Ludlow opposes take-			
Technicon-Infra Alyzer	Mar	14	39	prices	Sept	5	65		over proposal N	Feb	21	17
extracting hydrocarbons from shale	Jan	24	38	Lee Creek phosphate operations ex- pansion N	Sept	19	17		11			
depositsN Technip-ACHEMA 1979	July	4	44	Texasgulf IncFogarty reports to finan- cial analysts: trend toward higher					U			
Tecumseh Products Co.—PCB contamina- tion found in soil at plant in Sheboygan				" earnings continues	Oct	17	22		UCB S.A.—Joint-venture plant at Bucks, Ala., to manufacture tetramethyl thiuran			
Falls, Wis	Mar	7	23	Phosphate-phosphoric acid markets (table)	Aug	1	26		disulfide R	Dec	19	24
remaining equity from Carodel Corp. R	Feb	7 21	22	Potash capacity (table)	Aug		33 40		UGI Corp.—Edmunds, Edward Jr. presi- dent of AmeriGas and vice-president of			
Sales and profits up sharply (table) Teijin Polyester—DMT shortage blamed			33	Sulfur inventories down	Aug		18		UGI: He likes to build things, not just operate them	Nov	14	88
on Iranian crisis N Tenn-Luttrell Lime Co.—Lime plant		14	43 32	Sulfur prices N Jan 3-40, N Mar 7-32, N Aug 15-35 N	Nov	14	44		UKF-Explosion at Geleen plant tightens			36
Tenneco Chemicals—Computerized order- processing and inventory-control system				Sulfur recovery unit at Whitecourt, Alberta to be sold R	Jan	17	22		uOP-Catalysts report. Donald P. Burke		20	
called TOPICS		23	16	Textile Research Institute—New tech- nique for separating water mixtures					Pt II: Who's who in catalysts			64
Fumaric acid prices N Mar 28-28 N Hexamethylenetetramine prices N											4	
		23 31	39	(flowsheets)		6	42		purchase some assets of chemical			23
Joint venture for manufacture of the				(flowsheets)	June		42 43		purchase some assets of chemical division	Oct	31	23
Joint venture for manufacture of the plasticizer alcohol 2-ethylhexanol and phthalic anhydride N		31		(flowsheets)	Feb	14			purchase some assets of chemical division	Oct May Sept	31 2 5	13 70
Joint venture for manufacture of the plasticizer alcohol 2-ethylhexanol and phthalic anhydride	Oct	31	39	(flowsheets) Thai Melon Polyester–DMT shortage blamed on Iranian crisis N Thermo Electron–Multifuel, slow diesel for Scott Paper's Chester, Pa. plant N Thiokol Corp.—Roeper discusses inven-	Feb Apr	14 11	43 41		purchase some assets of chemical division. R Chinese process units expected to bring \$100 million in sales . N Chinese will train in U.S. CPI plants . Pact with BMW on car catalysts . N	Oct May Sept June	31 2 5 6	13 70 13
Joint venture for manufacture of the plasticizer alcohol 2-ethylhexanol and phthalic anhydride	Oct Dec Aug	19	39 17	(flowsheets) Thai Melon Polyester-DMT shortage blamed on Iranian crisis N Thermo Electron-Multifuel, slow diesel for Scott Paper's Chester, Pa, plant N Thiokol Corp.—Roeper discusses inventories Ventron Division: Study shows sodium	Feb Apr Oct	14	43		purchase some assets of chemical division. R Chinese process units expected to bring \$100 million in sales. N Chinese will train in U.S. CPI plants. Pact with BMW on car catalysts. N Shale oil as a jet-fuel source studied. Ube Industries—Ammonia/urea cutbacks.	Oct May Sept June Sept	31 2 5 6 6	13 70 13 22
Joint venture for manufacture of the plasticizer alcohol 2-ethylhexanol and phthalic anhydride. Nadleci anhydride, Nadleci anhydride, Allaci and benzoic scid, prices. Nadleci and benzoic scid, prices. Nadleci and property additions at Pasadena, Tex., and Flemington, N.J. NevC expensions.	Oct	31 19 8 22	39 17 23	(flowsheets) Thai Melon Polyester—DMT shortage blamed on Iranian crisis N Thermo Electron—Multifuel, slow diesel for Scott Paper's Chester, Pa, plant. N Thiokol Corp.—Roeper discusses inventories Ventron Division: Study shows sodium borohydride may help distillation efficiency.	Feb Apr Oct	14 11 3	43 41		purchase some assets of chemical division R R Chinese process units expected to bring \$100 million in sales N Chinese will train in U.S. CPI plants Pact with BMW on car catalysts N Shale oil as a jet-fuel source studied Ube Industries—Ammonia/urea cutbacks continue N Uhde GmbH—ACHEMA 1979: processes	Oct May Sept June Sept June July	31 2 5 6 6 5	13 70 13
Joint venture for manufacture of the plasticizer alcohol 2 ethylhexanol and phthalic anhydride, Naleic and benzoic acid, prices N PVC capacity additions at Pasadena, Tex., and Flemington, N.J., N PVC expansions Polyvinyl chloride heat stabilizers prices	Oct Dec Aug	31 19 8 22 5	39 17 23 13	(flowsheets). Thai Melon Polyester—DMT shortage blamed on Iranian crisis. N Thermo Electron—Multifuel, slow diesel for Scott Paper's Chester, Pe, plant. N Thickol Corp.—Roeper discusses inventories. Ventron Division: Study shows sodium borohydride may help distillation efficiency. N Wayn-Tox, Inc. operation sold to new	June Feb Apr Oct June	14 11 3	43 41 16 35		purchase some assets of chemical division R R Chinese process units expected to bring \$100 million in sales N N Chinese will train in U.S. CPI plants Pact with BMW on car catalysts N Shale oil as a jet-fuel source studied Ube Industries—Ammonia/urae cutbacks continue White GmbH—ACHEMA 1979: processes Bidder for Argentina's heavy-water	Oct May Sept June Sept June July	31 2 5 6 6 5 20 4	13 70 13 22 46 45
Joint venture for manufacture of the plasticizer alonol 2 exhibitean and phthalic anhydride. N Maleic anhydride, N Maleic anhydride, fumaric acid, and benzoic acid, prices	Oct Dec Aug Aug Sept	31 19 8 22 5	39 17 23 13 17	(flowsheets). Thai Melon Polyester—DMT shortage blamed on Iranian crisis. N Thermo Electron—Multifuel, slow diesel for Scott Paper's Chester, Pe, plant. N Thickol Corp.—Roeper discusses inventories. Ventron Division: Study shows sodium borohydride may help distillation efficiency. N Wayn-Tax, Inc. operation sold to new firm. N SM—Cyanoacrylates seek role as surgical.	June Feb Apr Oct June Aug	14 11 3 6 29	43 41 16 35 17		purchase some assets of chemical division R R Chinese process units expected to bring \$100 million in sales N N Chinese will train in U.S. CPI plants Pact with BMW on car catalysts N Shale oil as a jet-fuel source studied Ube Industries—Ammonia/urea cutbacks continue Uhde GmbH—ACHEMA 1979: processes Bidder for Argentina's heavy-water plant construction N Contract for hydrogen plant for Saudi	Oct May Sept June Sept June July Feb	31 2 5 6 6 5 20 4	13 70 13 22 46 45
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ville, S.C	Jan	24	9	Trauner says LPG set to gain as feed- stock	Nov	21	24	Feb 28-14, May 30-22	Oct	3	18
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Corporate research laboratory in Tarry- town, N.Y. closed N	Jan	10	33	Union Carbide Australia and New Zealand				Benzene prices N Feb 7-30, N Feb 14-29 N	Apr	11	29
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Ethylene: markets, capacity etc. (chart	0-1	3	32	Contact lens business	Oct	3	38	ethylene forecast	May	16	32 13
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Henkel negotiating to buy Amchem		7	or	Refinery expansion at Wilmington,				Sales and earnings '79: sales are expected			
Products	Nov		25 16	Calif	Feb		18 17	to hit \$1.2 billion in 1979 N	Oct	16	13
Industrial gases plant at Brownsville,				Acquires Pawnee Plastics' custom-ex-	-du	20	.,	Toluene prices N Feb 14-29 N Xylene prices N	May	16	30
Tex	Nov	21	13	truded sheet plant in Redlands, Calif.				USS Novamont-Polypropylene prices. N	Aug	15	35
International operation' sales and earnings	Mar	21	28	Aniline and diphenyl amine prices N	Mar		25 23	United Technologies-Carrier Corp. take- over proceedings N Feb 7-13, N Apr			
Inventories discussed by Holden and	-			Automotive applications for thermo-	. void y			11-17, R May 2-23 R	July	11	22
Avila	Oct	3	16	plastic elastomers	Juni	6	38	Unitika-Sales and profits up sharply			
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naphtha	Nov	7	14	Forecasts record year in 1979: Calarco upbeat on chemicals	Oct	17	23	by recombinant DNA techniques	Jan	3	18
Nuclear Division: thermochemical cycle uses solar collectors to produce				Gulf + Western says stock purchases are	OCE	.,	20	Recombinant-DNA research	June	1	32 6
hydrogen, CO N	Aug	15	38	strictly for investment		21	45	Sales and earnings	Apr	25	21
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Polyethylene capacity boost: LDPE plants at Taft, La. and Seadrift, Tex	Sept	28	18	Tire makers face flat sales in the 1980s				V			
Polyethylene's new pitch: properties, not				(chart & tables)	Man	30		Vale do Rio Doce-Valesul aluminum			
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house settles uranium suit for \$381				Nuclear-waste project in New Mexico N			38	Witco R	July	11	2
million	Apr	25	24	Oak Ridge awards contracts for bumpy	-		-	Solvent treating area of Golden Bear	July		•
Virginia Iron, Coal and Coke-American	- April	20	44	torus fusion devices called the ELMO				refinery at Oildale, Calif. expansion R	Dec	6	A
			00	Bumpy Torus (EBT) N	Aug	20	43	White-oil capacity at Petrolia, Pa., to	Dec	0	7
Natural Resources acquires Bates MfgR	June	6	22	Oak Ridge fluidized-bed contract	Sept	5	23	be expandedR	May	2	2
Vista Associates-Levine discusses paint			40	Uranium cartel	oopt		20	Wishnick and Sonneborn report to New	iviay	4	~
and coatings industry at CMRA meeting	Feb	21	40	Uranium suit with Vepco settled for							
Vistron CorpAcrylonitrile plant near				\$381 million	Apr	25	24	York financial analysts: sales goal—			
Green Lake, Tex. planned N Sept 19-17				Uranium claim with TVA settled N		23	13	\$1 billion by early '80s	Apr	4	4
N	Nov	28	17	Westinghouse presses its case (chart &	ινιαγ	23	13	Wolff-Walsrode—Technology for Northern			
Penex will add two acrylonitrile plants					heles	25	25	Petrochemical oriented polypropylene			
N	Nov	14	76	table)		3	25	film plant N	Apr	11	2
Vought CorpLTD contractor	Mar	7	22	Northwest Utilities settles suit R Westvaco Corp.—Labor contract ratified;	Oct	3	20	Woodhill Permatex-Cyanoacrylate ad-	1.	-	
Vuican Materials-Chlorine-caustic out-	resign.							hesives	Apr	25	5
look (charts & table)	Mar	14	30	operations at Luke, Md. and Covington,	Enh	14	10	Woodside Petroleum - Gas condensate will			
Coal conversion studied	June		21	Va. mills resume	Feb	14	18	be greater than expected from Australian			
Sales and earnings—third-quarter	Nov		22	Weyerhaeuser Co.—Bodcaw acquisition				field N	May	9	4
Seles and commigs—und quarter	1404	,		offer is \$655 million; company works				Woodward and Dickerson-Contracts for			_
				out lease-or-buy deal with Mobil	July	11	13	Arab Potash output N	Sept	26	6
VA/				Bodcaw pushes IP merger offer to			42	Woolsey Marine Industries-Marine-coat-			
VV				stockholders	July	18	17	ings market	July		9
							9	Wyandotte-Batch plant at Kearny, N.J.R			2
Wahash Container Dura Dura Duran									Dec	1.6	
Wabash. Container-Dura-Drum, hexago-	lan	10	20	offer N	Aug	1		Wyeth Laboratories-Jojoba oil for fight-		12	
nal corrugated-board drum	Jan	10	29	offer N IP's bid for Bodcaw succeeds N	Aug	15	13	ing foam	Feb	7	3
nal corrugated-board drum				offer	Aug	14	13 30	ing foam		7 5	3
nal corrugated-board drum	Mar	28	40	offer	Aug	14	13	ing foam	Feb	7	3
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